ISSN 0168-9002

NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH

Editor-in-Chief: Kai Siegbahn

Section A: accelerators, spectrometers, detectors and associated equipment

Editors: Kai Siegbahn & Erik Karlsson

THIS INDEX COMPLETES VOLUME A280

MASTER INDEX

VOLUMES A271–A280

North-Holland Amsterdam

JOURNALS IN PHYSICS - 1989

Applied Surface Science
Volumes 35-39 in 20 issues. Price: US $755.00/Dfl.1510.00

Chemical Physics
Volumes 131-139 in 27 issues. Price: US $1674.00/Dfl.3348.00

Chemical Physics Letters
Volumes 155-164 in 60 issues. Price: US $2260.00/Dfl.4520.00

Computer Physics Communications
Volumes 52-55 in 12 issues. Price: US $1014.00/Dfl.2028.00

Computer Physics Reports
Volume 11 in 6 issues. Price: US $236.00/Dfl.472.00
Reduced combined 1989 subscription to Computer Physics Communications and Computer Physics Reports: Price: US $1105.00/Dfl.2210.00

Fluid Dynamics Research
Volumes 4 and 5 in 12 issues. Price: US $287.00/Dfl. 574.00

Journal of Crystal Growth
Volumes 91-96 in 24 issues. Price: US $2031.00/Dfl.4062.00

Journal of Luminescence
Volumes 43-45 in 18 issues. Price: US $580.50/Dfl.1161.00

Journal of Magnetism and Magnetic Materials
Volumes 78-85 in 24 issues. Price: US $1608.00/Dfl.3216.00

Journal of Non-Crystalline Solids
Volumes 107-116 in 30 issues. Price: US $1760.00/Dfl.3520.00

Materials Letters
Volume 8 in 12 issues. Price: US $158.50/Dfl.317.00

Materials Science Reports
Volume 4 in 8 issues. Price: US $153.50/Dfl.307.00

Nuclear Instruments and Methods in Physics Research - Section A
Accelerators, Spectrometers, Detectors and Associated Equipment
Volumes 273-283 in 33 issues. Price: US $3091.00/Dfl. 6182.00

Nuclear Instruments and Methods in Physics Research - Section B
Beam Interactions with Materials and Atoms
Volumes 36-43 in 32 issues. Price: US $2248.00/Dfl.4496.00
Reduced combined 1989 subscription to Nuclear Instruments and Methods in Physics Research - A and - B: Price: US $4816.50/Dfl.9633.00

Nuclear Physics A
Volumes 491-505 in 60 issues. Price: US $3502.50/Dfl.7005.00

Nuclear Physics B
Volumes 311-328 in 54 issues. Price: US $4203.00/Dfl.8406.00
Reduced combined 1989 subscription to Nuclear Physics A and B: Price: US $6319.50/Dfl.12,639.00

Nuclear Physics B - Proceedings Supplements
Volumes 9-13 in 10 hardcover issues. Price: US $567.50/Dfl.1135.00
Reduced 1989 subscription if combined with Nuclear Physics B or Nuclear Physics A and B: Price: US $467.50/Dfl.935.00

Optics Communications
Volumes 69-73 in 30 issues. Price: US $867.50/Dfl.1735.00

Physica A - Statistical and Theoretical Physics
Volumes 153-160 in 24 issues. Price: US $1348.00/Dfl.2696.00

Physica B - Condensed Matter Physics
Volumes 156-161 in 18 issues. Price: US $1011.00/Dfl.2022.00

Physica C - Superconductivity
Volumes 157-161 in 15 issues. Price: US $842.50/Dfl.1685.00

Physica D - Nonlinear Phenomena
Volumes 35-40 in 18 issues. Price: US $1011.00/Dfl. 2022.00
Reduced combined 1989 subscription to Physica A, Physica B, Physica C, Physica D: Price: US $3525.00/Dfl.7050.00

Physics Letters A
Volumes 134-140 in 63 issues. Price: US $1004.50/Dfl. 2009.00

Physics Letters B
Volumes 216-233 in 72 issues. Price: US $2584.00/Dfl. 5166.00

Physics Reports
Volumes 172-186 in 90 issues. Price: US $2152.50/Dfl.4305.00
Reduced combined 1989 subscription to Physics Letters A, Physics Letters B and Physics Reports: Price: US $4940.00/Dfl.9880.00

Solar Energy Materials
Volumes 19 and 20 in 12 issues. Price: US $347.00/Dfl.694.00

Solid State Ionics
Volumes 31-36 in 24 issues. Price: US $861.00/Dfl.1722.00

Surface Science
Volumes 209-224 in 48 issues. Price: US $3216.00/Dfl.6432.00

Surface Science Reports
Volumes 10 and 11 in 16 issues. Price: US $302.00/Dfl.604.00
Reduced combined 1989 subscription to Surface Science (including Surface Science Letters), Applied Surface Science, and Surface Science Reports: Price: US $3918.00/Dfl.7836.00

Ultramicroscopy
Volumes 27-31 in 20 issues. Price: US $767.50/Dfl.1535.00

Please note that prices are subject to exchange rate fluctuations. The Dutch guilder price is definitive, unless otherwise stated. All prices include postage and handling charges.
Journals are sent by surface delivery to all countries, except the following where SAL air delivery (Surface Airlifted Mail) is ensured: U.S.A., Canada, Japan, Australia, New Zealand, P.R. China, India, Israel, S. Africa, Malaysia, Singapore, South Korea, Taiwan, Pakistan, Hong Kong, Brazil, Argentina, Thailand, Mexico.
Airmail rates for other countries are available upon request.

NORTH-HOLLAND PHYSICS

(a section of Elsevier Science Publishers)
P.O. Box 103, 1000 AC Amsterdam, The Netherlands

Elsevier Science Publishers, Journal Information Center, PO Box 882, Madison Square Station, New York, NY 10159, U.S.A.

4052J/105

NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH

Editor-in-Chief: Kai Siegbahn

Section A: accelerators, spectrometers, detectors and associated equipment

Editors: Kai Siegbahn & Erik Karlsson

MASTER INDEX

VOLUMES A271–A280

NORTH-HOLLAND – AMSTERDAM

AUTHOR INDEX TO VOLUMES A271–A280

Aab, V., K. Alrutz-Ziemssen, H.-D. Gräf, A. Richter and A. Gaupp, The Darmstadt near-infrared free electron laser project A272 (1988) 53

Aarnio, P.A. and H. Lauranto, Using precalibrated peak shapes in the analysis of energy dispersive electron induced X-ray spectra A276 (1989) 608

Abchiche, A., see Shidara, T. A279 (1989) 423

Abdel-Aal, R.E., A programmable Gaussian random pulse generator for automated performance measurements A276 (1989) 573

Abe, F., D. Amidei, G. Apollinari, G. Ascoli, M. Atac, P. Auchincloss, A.R. Baden, A. Barbaro-Galtieri, V.E. Barnes, E. Barsotti, F. Bedeschi, S. Belforte, G. Bellettini, J. Bellinger, J. Bensinger, A. Beretvas, P. Bergé, S. Bertolucci, S. Bhadra, M. Binkley, R. Blair, C. Blocker, J. Bofill, A.W. Booth, G. Brandenburg, A. Brenner, D. Brown, A. Byon, K.L. Byrum, M. Campbell, R. Carey, W. Carithers, D. Carlsmith, J.T. Carroll, R. Cashmore, F. Cervelli, K. Chadwick, T. Chapin, G. Chiarelli, W. Chinowsky, S. Cihangir, D. Cline, D. Connor, M. Contreras, J. Cooper, M. Cordelli, M. Curatolo, C. Day, R. Delfabbro, M. Dell'Orso, L. Demortier, T. Devlin, D. Dibitonto, R. Diebold, F. Dittus, A. Divirgilio, R. Downing, G. Drake, T. Droege, M. Eaton, J.E. Elias, R. Ely, S. Errede, B. Esposito, A. Feldman, B. Flaugher, E. Focardi, G.W. Foster, M. Franklin, J. Freeman, H. Frisch, Y. Fukui, S. Galeotti, I. Gaines, A.F. Garfinkel, P. Giannetti, N. Giokaris, P. Giromini, L. Gladney, M. Gold, K. Goulianos, J. Grimson, C. Grosso-Pilcher, C. Haber, S.R. Hahn, R. Handler, D. Hanssen, R.M. Harris, J. Hauser, Y. Hayashide, T. Hessing, R. Hollebeek, L. Holloway, P. Hu, B. Hubbard, P. Hurst, J. Huth, M. Ito, J. Jaske, H. Jensen, R.P. Johnson, U. Joshi, R.W. Kadel, T. Kamon, S. Kanda, I. Karliner, H. Kautzky, K. Kazlauskis, E. Kearns, R. Kephart, P. Kesten, H. Keutelian, Y. Kikuchi, S. Kim, L. Kirsch, S. Kobayashi, K. Kondo, U. Kruse, S.E. Kuhlmann, A.T. Laasanen, W. Li, T. Liss, N. Lockyer, F. Marchetto, R. Markeloff, L.A. Markosky, M. Masuzawa, P. McIntyre, A. Menzione, T. Meyer, S. Mikamo, M. Miller, T. Mimashi, S. Miscetti, M. Mishina, S. Miyashita, H. Miyata, N. Mondal, S. Mori, Y. Morita, A. Mukherjee, A. Murakami, Y. Muraki, C. Nelson, C. Newman-Holmes, L. Nodulman, J. O'Meara, G. Ott, T. Ozaki, S. Palanque, R. Paoletti, A. Para, D. Pazzuello, J. Patrick, R. Perchonok, T.J. Phillips, H. Piekarz, R. Plunkett, L. Pondrom, J. Proudfoot, G. Punzi, D. Quarrie, K. Ragan, G. Redlinger, R. Rezmer, J. Rhoades, L. Ristori, T. Rohaly, A. Roodman, H. Sanders, A. Sansoni, R. Sard, V. Scarpine, P. Schlabach, E.E. Schmidt, P. Schoessow, M.H. Schub, R. Schwitters, A. Scribano, S. Segler, M. Sekiguchi, P. Sestini, M. Shapiro, M. Sheaff, M. Shibata, M. Shochet, J. Siegrist, V. Simaitis, J.K. Simmons, P. Sinervo, M. Sivertz, J. Skarha, D.A. Smith, R. Snider, L. Spencer, R. St. Denis, A. Stefanini, Y. Takaiwa, K. Takikawa, S. Tarem, D. Theriot, J. Ting, A. Tollestrup, G. Tonelli, W. Trischuk, Y. Tsay, K. Turner, F. Ukegawa, D. Underwood, C. Van Ingen, R. Van Berg, R. Vidal, R.G. Wagner, R.L. Wagner, J. Walsh, T. Watts, R. Webb, T. Westhusing, S. White, V. White, A. Wicklund, H.H. Williams, T. Winch, R. Yamada, T. Yamanouchi, A. Yamashita, K. Yasuoka, G.P. Yeh, J. Yoh and F. Zetti, The CDF detector: An overview A271 (1988) 387

Abegg, R., G.S. Clark, M.K. Craddock, W. Felske, T. Gathright, A. Otter, P. Reeve, R. Schubank, G.M. Stinson and S. Yen, Longitudinally polarized proton beams at TRIUMF A273 (1988) 43

Abolins, M., see Womersley, W.J. A278 (1989) 447

Abolins, M., see D0 Calorimeter Group A280 (1989) 36

Abreu, M., see Vincent, P. A272 (1988) 660

Acquadro, J.C., see Gomes, P.R.S. A280 (1989) 395

Adeva, B., M. Aguilar-Benitez, D. Antreasyan, U. Becker, J. Berdugo, G.J. Bobbink, J. Branson, J. Burger, C. Burgos, D. Campana, F. Carbonara, M. Cerrada, Y.H. Chang, M.L. Chen, G. Chiefari, E. Drago, P. Duinker, I. Duran, F.C. Erné, R. Fabbretti, M. Fabre, S.S. Gau, M. Gettner, E. Gonzalez, H. Van der Graaf, F.G. Hartjes, V. Innocente, A.C. König, S. Lanzano, J.M. LeGoff, J. Li, C. Mana, L. Martinez-Laso, G.G.G. Massaro, P. McBride, L. Merola, M. Napolitano, J. Onvlee, G. Paternoster, S. Patricelli, Y. Peng, O. Prokofiev, J.M. Qian, P. Razis, L. Romero, J.A. Rubio, H. Rykaczewski, J. Salicio, A. Schetkowski, P. Schmitt, C. Sciacca, P. Seiler, V. Suvorov, K. Strauch, C. Timmermans, S. Volkov, J.H. Wang, Q.F. Wang, T. Wenaus, M. White, R. Wilhelm, C. Willmott, B. Wyslouch, C.G. Yang and S.C. Yeh, Muon detection in the L3 experiment at LEP A277 (1989) 187

Adlassnig, W., W. Potzel, J. Moser, C. Schäfer, M. Steiner and G.M. Kalvius, High pressure Mössbauer spectrometer for the high-resolution 93.3 keV resonance in ^{67}Zn A277 (1989) 485

Adler, J., T. Bolton, K. Bunnell, R. Cassell, E. Cheu, R. Eisele, T. Freese, C. Grab, G. Mazaheri, R. Mir, A. Odian, D. Pitman, W. Stockhausen, W. Toki, F. Villa, W. Wadley, S. Wasserbaech and W. Wisniewski, The MARK III vertex chamber A276 (1989) 42

0168-9002/89/$03.50 © Elsevier Science Publishers B.V.
(North-Holland Physics Publishing Division)

Adler, R., see CP-LEAR Collaboration A279 (1989) 285
Adrian, S.D., see Wightman, J.A. A275 (1989) 281
Adrian, S.D., see Kessler, R.S. A275 (1989) 285
Adžić, P.R., see Aničin, I.V. A271 (1988) 264
Ageron, P., see Chianelli, C. A273 (1988) 245
Aglietta, C., see Bari, G. A277 (1989) 11
Aglietta, M., W. Fulgione, O. Saavedra and G. Trinchero, The properties of the detection system of the LVD/UNO experiment A277 (1989) 17
Aglietta, M., G. Badino, L. Bergamasco, C. Castagnoli, A. Castellina, G. Cini, M. Dardo, B, D'Ettorre-Piazzoli, W. Fulgione, P. Galeotti, P. Ghia, G. Mannocchi, C. Morello, G. Navarra, L. Periale, P. Picchi, O. Saavedra, G. Trinchero, P. Vallania and S. Vernetto, The EAS–TOP array at $E_0 = 10^{14}$–10^{16} eV: stability and resolutions A277 (1989) 23
Agnew, G., see Damerell, C.J.S. A275 (1989) 484
Agoritsas, V., K. Kuroda and Ch. Nemoz, A new type of position-sensitive electron multiplier A277 (1989) 237
Agrawal, P.C., see Ramsey, B.D. A273 (1988) 326
Agrawal, P.C. and B.D. Ramsey, Use of propane as a quench gas in argon-filled proportional counters and comparison with other quench gases A273 (1988) 331
Agrawal, P.C., B.D. Ramsey and M.C. Weisskopf, Study of argon-based Penning gas mixtures for use in proportional counters A277 (1989) 557
Agrawal, P.C., see Ramsey, B.D. A278 (1989) 576
Aguilar-Benitez, M., see Adeva, B. A277 (1989) 187
Ahn, S.-C., see D0 Calorimeter Group A280 (1989) 36
Ait-Boubker, S., M. Avenier, G. Bagieu, J.F. Cavaignac, J. Collot, J. Favier, E. Kajfasz, D.H. Koang, A. Stutz and B. Vignon, Thermal neutron detection and identification in a large volume with a new lithium-6 loaded liquid scintillator A277 (1989) 461
Aizawa, O., see Matsumoto, T. A271 (1988) 662
Aizawa, O., see Ikeda, Y. A276 (1989) 183
Akbari, H., see Ma, H. A274 (1989) 113
Akiba, T., see Mima, K. A272 (1988) 106
Akiba, Y., see Alburger, D.E. A276 (1989) 127
Akiyoshi, T., see Kawai, T. A276 (1989) 408
Akopdjanov, G.A., see Filatova, N.A. A272 (1988) 707
Akopdjanov, G.A., Choice of gas mixture for limited streamer mode tubes A278 (1989) 722
Akopyan, M.V., S.V. Klimenko, A.A. Lebedev and E.A. Razuvaev, On histogram parameter estimator bias A272 (1988) 855
Al-Juwair, H.A., see Gul, K. A278 (1989) 470
Alba, R., G. Bellia and A. Del Zoppo, Performance of a symmetric BGO–NaI anti-Compton shield A271 (1988) 553
Alberti, B., see Richter, A.W. A274 (1989) 249
Albertini, G., see Coppola, R. A280 (1989) 583
Albrecht, H., see ARGUS Collaboration A275 (1989) 1
Albrecht, R., R. Bock, G. Claesson, H.H. Gutbrod, J. Hoffmann, B.W. Kolb, U. Kopf, A. Loos, I. Lund, M. Marquardt, A. Przybyla, R. Schulze, T. Siemiarczuk, A. Eklund, S.I.A. Garpman, P. Kristiansson and F. Berger, Self-quenching streamer-tube detectors in the WA80 experiment A276 (1989) 131
Albrizio, R., R. Baldini, G. Bagliesi, G. Batignani, G. Bencivenni, G. Bologna, F. Bossi, U. Bottigli, C. Bradaschia, P. Campana, G. Capon, M.G. Catanesi, V. Chiarella, G. De Ninno, M. De Palma, B. D'Ettorre Piazzoli, M. Dreucci, G. Felici, L. Foa, F. Forti, A. Giassi, M.A. Giorgi, G. Iaselli, P. Laurelli, G. Maggi, G.P. Mannocchi, A. Messineo, G.P. Murtas, S. Natali, S. Nuzzo, P. Picchi, A. Ranieri, G. Raso, F. Romano, F. Ruggieri, S. Scapellato, G. Selvaggi, L. Silvestris, R. Tenchini, G. Triggiani and G. Zito, Monte Carlo simulation of the ALEPH hadron prototype calorimeter A271 (1988) 449
Alburger, D.E., see Wang, G. A272 (1988) 791
Alburger, D.E., Y. Akiba, E. Baker, L. Birstein, J.W. Olness and M.J. Tannenbaum, Response of a thin avalanche detector to simultaneous minimum ionizing particles A276 (1989) 127
Alde, D., see IHEP–IISN–LANL–LAPP Collaboration A276 (1989) 652
Aldrich, J.E. and B. Pass, Comments on "ESR dosimetry for atomic bomb survivors and radiologic technologists" (*Letter to the Editor*) A273 (1988) 451
Alefeld, B., D. Schwahn and T. Springer, New developments of small angle neutron scattering instruments with focussing A274 (1989) 210
Aleklett, K., see Lavergne-Gosselin, L. A276 (1989) 210
Aleksan, R., J. Bouchez, M. Boussicut, T. Desanlis, D. Jourde, J. Mullié, F. Pierre, L. Poinsignon, R. Praca, G. Roussel, J.F. Thomas, J. Collot, A. Stutz and E. Kajfasz, Pulse shape discrimination with a 100 MHz flash ADC system A273 (1988) 303

Aleksan, R., J. Bouchez, M. Cribier, E. Kajfasz, B. Pichard, F. Pierre, J. Poinsignon, M. Spiro and J.F. Thomas, Measurement of fast neutrons in the Gran Sasso Laboratory using a ^{6}Li doped liquid scintillator A274 (1989) 203
Alessandrello, A., D.V. Camin, E. Fiorini, A. Giuliani, M. Buraschi and G. Pignatel, Bolometric detection of particles A279 (1989) 142
Alexandropoulos, N.G., T. Chatzigeogiou, G. Evangelakis, M.J. Cooper and S. Manninen, Bremsstrahlung and its contribution to the gamma ray scattering spectra of solids A271 (1988) 543
Alimov, A.S., V.G. Gevorkyan, Yu.I. Gorbatov, I.V. Gribov, A.Kh. Ibadov, B.S. Ishkhanov, V.A. Korneenkov, E.V. Lazutin, E.A. Makulbekov, I.M. Piskarev, K.Yu. Platov, A.B. Savitsky, A.V. Shumakov, V.I. Shvedunov, V.M. Sorvin, A.V. Tiunov, V.A. Ushkanov and S.V. Zinoviev, Beam emittance forming line of the cw race-track microtron of the Institute of Nuclear Physics of Moscow State University (INP MSU) A278 (1989) 379
Alitti, J., A. Baracat, P. Bareyre, P. Bonamy, M. Bourdinaud, J.A. Crittenden, J-P. Meyer, P. Perrin, A. Stirling, J-C. Thevenin and H. Zaccone, The design and construction of a scintillating fiber tracking detector A273 (1988) 135
Alitti, J., R.E. Ansorge, P. Bareyre, G. Blaylock, P. Bonamy, C.N. Booth, J. Crittenden, R.S. Dewolf, J. Dupont, K. Einsweiler, C. Engster, J-M. Gaillard, K. Hultqvist, M. Lefebvre, L. Linssen, J-P. Meyer, D.J. Munday, J.M. Pentney, J.G. Rushbrooke, A. Stirling, A.R. Weidberg, P.S. Wells, D.R. Wood, S.A. Wotton, T.O. White and H. Zaccone, Performance of the scintillating fibre detector in the upgraded UA2 detector A279 (1989) 364
Alkhazov, G.D., E.Ye. Berlovich and V.N. Panteleyev, A new highly efficient selective laser ion source (*Letter to the Editor*) A280 (1989) 141
Allegretti, F., see Pizzini, S. A279 (1989) 402
Allen, P., J.M^a Benlloch, A. Ferrer, E. Higón, E. Sanchez, E. Sanchis and M.A. Sanchis, The TSU: a FASTBUS module for the TOF detector of DELPHI A277 (1989) 347
Allen, R.C., see Biller, S.D. A276 (1989) 144
Allinson, N.M., see Magorrian, B.G. A273 (1988) 599
Allinson, N.M. and G.N. Greaves, Hybrid linear array detectors for synchrotron radiation applications A273 (1988) 620
Allinson, N.M., Solid-state detectors for synchrotron radiation experiments A275 (1989) 587
Allport, P., see Burns, M. A277 (1989) 154
Allport, P., see Dijkstra, H. A277 (1989) 160
Allport, P., see Joyce, D. A279 (1989) 189
Allport, P.P., P. Seller and M. Tyndel, A low power CMOS VLSI multiplexed amplifier for silicon strip detectors A273 (1988) 630
Alpat, B., see Benvenuti, A.C. A276 (1989) 94
Alpat, B., see Bari, G. A277 (1989) 11
Alpat, B., C. Artemi, F. Babucci, G. Bilei, R. Battiston, M. Italiani, G. Mantovani, M. Pauluzzi and L. Servoli, A study of nonflammable fast CF_4-based mixtures for limited streamer tubes A277 (1989) 260
Alpat, B., see Cartwright, S. A277 (1989) 269
Alper, B., see Robertson, S.H. A279 (1989) 599
Alrutz-Ziemssen, K., see Aab, V. A272 (1988) 53
Alsmiller Jr., R.G., see Alsmiller, F.S. A278 (1989) 713
Alsmiller Jr., R.G., see Henderson, D.L. A280 (1989) 91
Alsmiller, F.S. and R.G. Alsmiller Jr., Inclusion of correlations in the empirical selection of intranuclear cascade nucleons from high energy hadron–nucleus collisions A278 (1989) 713
Alston-Garnjost, M., B.L. Dougherty, R.W. Kenney, J.M. Krivicich, A.R. Smith, R.D. Tripp, J.T. Walton, H.W. Nicholson, B.D. Dieterle and C.P. Leavitt, A new detector system for double beta decays A271 (1988) 475
Alton, G.D., see Mori, Y. A273 (1988) 5
Alton, G.D. and G.D. Mills, A technique for generating atomic negative ion beams of the group IA elements (*Letter to the Editor*) A276 (1989) 388
Alvarez-Taviel, F.J., see UA1 Collaboration A279 (1989) 114
Alverson, G., see Engels Jr, E. A279 (1989) 272
Alyea, D., see Bari, G. A277 (1989) 11
Amako, K., Y. Arai, H. Sakamoto, Y. Teramoto, S. Uehara, Y. Yasu, Y. Chiba, I. Endo, I. Hayashibara, T. Ohsugi and R. Tanaka, Data acquisition system for the VENUS detector at TRISTAN A272 (1988) 687
Ambrósio, A., see Salgado, J. A280 (1989) 530
Amemiya, Y., see Shiotani, N. A275 (1989) 447
Amidei, D., see Abe, F. A271 (1988) 387
Amin, Y.M., A study of the effect of natural radiation damage in a zircon crystal using thermoluminescence, fission track etching and X-ray diffraction A280 (1989) 314
Amir, A., R.J. Hu, F. Kielmann, J. Mertz and L.R. Elias, Injection locking experiment at the UCSB FEL A272 (1988) 174
Amir, A., Transverse optical mode trapping in a free electron laser A272 (1988) 505
Ammar, R., see Toothacker, W.S. A273 (1988) 97
Ammar, R., see ARGUS Collaboration A275 (1989) 1
Amrein, R., see Hunt, J.E. A274 (1989) 597

Anami, S., see Shidara, T. A279 (1989) 423
Anderhub, H., see Böhm, A. A273 (1988) 471
Anders, B., P. Cloth, D. Filges, Ch. Reul and G. Sterzenbach, Monte Carlo simulation on event-by-event base of calorimeter experiments with uranium/scintillator layers using the HERMES code system A277 (1989) 56
Anderson, B.D., see Watson, J.W. A272 (1988) 750
Anderson, D.F., Some new ideas in liquid detectors A273 (1988) 657
Ando, M., see Shiotani, N. A275 (1989) 447
Ando, Y., see Shirato, S. A278 (1989) 477
Andrade, E. and E.P. Zironi, A method for measuring the high voltage of a low energy Van de Graaff accelerator A273 (1988) 16
Andreani, C., G. Baciocco, R.S. Holt and J. Mayers, Resolution in deep inelastic neutron scattering using pulsed neutron sources A276 (1989) 297
Andrejtscheff, W., see Petkov, P. A271 (1988) 617
Andreyev, A.N., see Yeremin, A.V. A274 (1989) 528
Angelini, C., W. Beusch, I.J. Bloodworth, J.N. Carney, D.J. Crennell, M. De Vincenzi, A. Duane, J.P. Fabre, C.M. Fisher, V. Flaminio, A. Frenkel, K. Harrison, P. Hughes, J.B. Kinson, E. Lamanna, H. Leutz, G. Martellotti, J.G. McEwen, D.R.O. Morrison, G. Penso, S. Petrera, E. Quercigh, C. Roda, A. Sciubba, O. Villalobos-Baillie, M.F. Votruba and D.M. Websdale, High-resolution tracking with scintillating fibres A277 (1989) 132
Angelini, F., R. Bellazzini, A. Brez, M.M. Massai and M.R. Torquati, A parallel plate chamber with pixel readout particularly suitable for very high data rate A276 (1989) 258
Angerer, H., see Lindner, H. A273 (1988) 444
Angius, S.A., R. Au, G.C. Crawley, C. Djalali, R. Fox, M. Maier, C.A. Ogilvie, A. Vander Molen, G.D. Westfall and R.S. Tickle, CCD camera system for use with a streamer chamber A273 (1988) 283
Aničin, I.V., P.R. Adžić, Dj. Krmpotić, A.H. Kukoč, R. Vukanović and M. Župančič, Taking a germanium detector down into the shaft of the thallium mine: What is the relevance to the solar neutrino flux determination via ^{205}Pb? A271 (1988) 264
Aničin, I.V., see Vesić, D. A276 (1989) 216
Anisimov, Yu.S., S.P. Chernenko, A.B. Ivanov, T. Netušil, V.D. Peshekhonov, L.P. Smykov, Yu.V. Zanevsky, M. Císař, J. Horáček, J. Kňourek, L. Moučka, L. Nezmar, L. Pellar, J. Pochman, Z. Schneider, Z. Šidák, I. Vrba, V. Bízek, Z. Zavadil, P. Beran and K. Černý, Development and investigation of a neutron radiography imaging system with a low-pressure multistep chamber A273 (1988) 731
Anjos, M.J., R.T. Lopes and J.C. Borges, Compton scattering of gamma-rays as surface inspection technique .. A280 (1989) 535
Ankoviak, K., see UA1 Collaboration A279 (1989) 83
Annunziata, M., W. Bragagnini, P. Guazzoni, G. Sechi, G. Taiocchi and L. Zetta, BIG – A binary generator for testing digital devices A271 (1988) 597
Anrouet, C., see Ansorge, R.E. A273 (1988) 826
Ansari, R., E. Beuville, K. Borer, P. Cenci, A.G. Clark, A. Federspiel, O. Gildemeister, C. Gössling, K. Hara, E.H.M. Heijne, P. Jarron, P. Lariccia, B. Lisowski, D.J. Munday, T. Pal, M.A. Parker, N. Redaelli, P. Scampoli, V. Simak, S.L. Singh, T. Valon-Hulth and P.S. Wells, The silicon detectors in the UA2 experiment A279 (1989) 388
Ansorge, R.E., C. Anrouet, P. Bareyre, P. Bonamy, C.N. Booth, M. Bouchard, M. Bourdinaud, M. Cordier, J. Crittenden, R.S. Dewolf, J. Dupont, J. Dupraz, K. Einsweiler, C. Engster, J-P. Fabre, J-M. Gaillard, J-L. Garavel, K. Hultqvist, C. Jeanney, S.G. Katvars, M. Lefebvre, L. Linssen, B. McCluskey, B. Merkel, J-P. Meyer, D.J. Munday, P. Nappey, J.M. Pentney, S. Reynaud, J.G. Rushbrooke, J-C. Thevenin, W.Y. Tsang, A.R. Weidberg, P.S. Wells, S.A. Wotton, T.O. White and H. Zaccone, The UA2 scintillating fibre detector .. A273 (1988) 826
Ansorge, R.E., see Alitti, J. A279 (1989) 364
Ansorge, R.E., see Rushbrooke, J.G. A280 (1989) 83
Antipov, Yu., see Brown, C. A279 (1989) 331
Antipov, Yu.M., M.S. Bilenky, P. Cantoni, D.S. Denisov, C. De Martinis, O.V. Eroshin, P.L. Frabetti, Yu.P. Gorin, P.A. Kulinich, R. Leitner, V. Lelli, I.V. Mandrichenko, A.A. Nozdrin, A.G. Olshevski, P. Palombo, A.I. Petrukhin and G. Sola, Scintillation hodoscopes for time-of-flight measurements A274 (1989) 452
Antl, M. and H. Wollnik, Adjustable multipole elements A274 (1989) 45
Anton, G., K. Büchler and M. Kückes, A LED monitoring system for pulse height and time measurement with scintillation counters A274 (1989) 222
Antonsen, Jr, T.M., see Granatstein, V.L. A272 (1988) 110
Antonsen, Jr, T.M., see Levush, B. A272 (1988) 375
Antonsen, Jr, T.M. and B. Levush, Optical guiding in the separable beam limit A272 (1988) 472
Antreasyan, D., see Adeva, B. A277 (1989) 187
Anzalone, A., see Finocchiaro, P. A271 (1988) 563
Anzivino, G., see Bari, G. A277 (1989) 11
Aoki, S., R. Arnold, G. Baroni, M. Barth, J.H. Bartley, D. Bertrand, G. Bertrand-Coremans, V. Bisi, A.C. Breslin, G. Carboni, M.G. Catanesi, A.M. Cecchetti, E. Chesi, K. Chiba, M. Coupland, D.H. Davis, S.

Dell'Uomo, M. De Vincenzi, S. Di Liberto, W. Donnelly, B.G. Duff, M.J. Esten, A. Frenkel, D. Gamba, C. Gerke, P. Giubellino, M. Hazama, F.F. Heymann, K. Hoshino, D.C. Imrie, Y. Isokane, T. Kaway, M. Kazuno, M. Kobayashi, K. Kodama, G.J. Lush, Y. Maeda, A. Manfredini, G. Marini, G. Martellotti, A. Marzari-Chiesa, M.A. Mazzoni, F. Meddi, F. Minakawa, M. Miyanishi, A. Montwill, M.T. Muciaccia, P. Musset, M. Nakamura, Y. Nakamura, K. Nakazawa, S. Natali, A. Nigro, K. Niu, K. Niwa, S. Nuzzo, M. Ohashi, G. Penso, P. Pistilli, F. Piuz, G. Poulard, L. Ramello, L. Riccati, G. Romano, R. Roosen, G. Rosa, F. Ruggieri, H. Sasaki, Y. Sato, A. Sciubba, C. Sgarbi, H. Shibuya, S. Simone, H.I. Sletten, H. Tajima, S. Tasaka, I. Tezuka, Y. Tomita, D.N. Tovee, P. Trent, Y. Tsuneoka, N. Ushida, S. Watanabe, O. Yamakawa and Y. Yanagisawa, A hybrid experiment to search for beauty particles A274 (1989) 64

Aoki, T., see Ohya, S. A276 (1989) 223

Apollinari, G., see Abe, F. A271 (1988) 387

Apollinari, G., F. Bosi, S. Belforte, E. Focardi, R. Paoletti, G. Tonelli and F. Zetti, Silicon detectors for p–$\bar{p}$ small-angle physics A277 (1989) 138

Apollinari, G., S. Belforte, F. Bosi, E. Focardi, R. Paoletti, G. Tonelli and F. Zetti, Performance of surface barrier silicon detectors with x, y readout A279 (1989) 396

Apte, A.R., S.G. Bhargavi, N.V. Gopalakrishnan, M.R. Rajeev, T. Selvankumaran, B.V. Sreekantan and S.C. Tonwar, Use of plexiglas sheets coated with wavelength-shifter dyes for detection of atmospheric Cherenkov radiation. A new technique for gamma ray astronomy at energies of $\sim 10^{13} - 10^{14}$ eV A273 (1988) 403

Aragonés, J.M., see Velarde, G. A278 (1989) 105

Arai, I., see Ninomiya, M. A272 (1988) 727

Arai, S., T. Fukushima, T. Morimoto, E. Tojyo, N. Tokuda, M. Yoshizawa and T. Hattori, Development of a split coaxial RFQ at INS A278 (1989) 236

Arai, Y., see Amako, K. A272 (1988) 687

Arakawa, D., see Sato, H. A272 (1988) 617

Aramaki, E.A., P. Porto, L. Berni, R.Y. Honda, M. Ueda, I. Doi and M. Machida, Optimization of the implosion phase on TC-I by light emission analysis A280 (1989) 597

Ardisson, C., see Kouassi, M.C. A280 (1989) 424

Ardisson, G., see Kouassi, M.C. A280 (1989) 424

Arefiev, A., see ARGUS Collaboration A275 (1989) 1

Arefiev, A., see L3 Collaboration A275 (1989) 71

Arens, J.F., see Shapiro, S.L. A275 (1989) 580

ARGUS Collaboration, H. Albrecht, U. Binder, P. Böckmann, G. Drews, R. Gläser, G. Harder, H. Hasemann, A. Krolzig, E. Michel, W. Reinsch, W. Schmidt-Parzefall, H. Schröder, H.D. Schulz, F. Selonke, E. Steinmann, R. Wurth, A. Drescher, B. Gräwe, W. Hofmann, D. Kamp, A. Markees, U. Matthiesen, H. Scheck, B. Spaan, J. Spengler, D. Wegener, R. Heller, K.R. Schubert, J. Stiewe, K. Strahl, R. Waldi, S. Weseler, K.W. Edwards, W.R. Frisken, Ch. Fukunaga, D.J. Gilkinson, D.M. Gingrich, M. Goddard, H. Kapitza, P.C.H. Kim, R. Kutschke, D.B. MacFarlane, J.A. McKenna, K.W. McLean, A.W. Nilsson, R.S. Orr, B.P. Padley, P.M. Patel, J.D. Prentice, H.C.J. Seyerd, J.D. Swain, G. Tsipolitis, T.S. Yoon, J.C. Yun, R. Ammar, D. Coppage, R. Davis, S. Kanekal, N. Kwak, L. Jönsson, A. Arefiev, A. Babaev, M. Danilov, A. Golutvin, V. Lubimov, V. Matveev, V. Nagovitsin, V. Ryltsov, A. Semenov, Yu. Semenov, V. Shevchenko, V. Soloshenko, V. Tchistilin, I. Tichomirov, Yu. Zaitsev, R. Childers, C.W. Darden, H. Gennow and Y. Oku, ARGUS: a universal detector at DORIS II A275 (1989) 1

Aria, E., see Bloch, D. A273 (1988) 847

Aristov, V.V., Yu.A. Basov, G.N. Kulipanov, V.F. Pindyurin, A.A. Snigirev and A.S. Sokolov, Focusing properties of a Bragg–Fresnel lens in the white spectrum of synchrotron radiation A274 (1989) 390

Arita, K., see Ogawa, K. A271 (1988) 280

Armbruster, P., see Hessberger, F.P. A274 (1989) 522

Armitage, J., see Wong, L. A273 (1988) 476

Armitage, J.C., S.P. Beingessner, R.K. Carnegie, E.F. Ritchie and J. Waterhouse, A study of the effect of methane and carbon dioxide concentration on gas amplification in argon based gas mixtures A271 (1988) 588

Armitage, J.C., see Roney, J.M. A279 (1989) 236

Armstrong, T.A., see WA76 Collaboration A274 (1989) 165

Arndt, U.W., Position-sensitive detectors in condensed matter studies A273 (1988) 459

Arnold, J.R., see Yadav, J.S. A277 (1989) 591

Arnold, R., J.L. Guyonnet, Y. Giomataris, P. Pétroff, J. Séguinot, J. Tocqueville and T. Ypsilantis, A RICH detector with a sodium fluoride radiator: π/K identification up to 3 GeV/c A273 (1988) 466

Arnold, R., see Aoki, S. A274 (1989) 64

Arnold, R., see Hoffmann, D.H.H. A278 (1989) 44

Arnold, R.C., see Tahir, N.A. A278 (1989) 76

Arnold, R.C., see Mulser, P. A278 (1989) 89

Arnold, R.C. and N.A. Tahir, Conversion efficiency for producing thermal radiation using high-energy heavy-ion beams A278 (1989) 129

Arnold, R.C., see Kull, H.J. ... A278 (1989) 135
Arnold, R.C., Using 100 GeV/nucleon accelerators for fusion and plasma experiments ... A278 (1989) 163
Aronson, S. et al., Hadron and electron response in a uranium liquid argon calorimeter from 10 to 150 GeV, Nucl. Instr. and Meth. A269 (1988) 492–506 (*Erratum*) ... A273 (1988) 453
Aronson, S.H., see D0 Calorimeter Group ... A280 (1989) 36
Arpesella, C., A review of running underground experiments ... A277 (1989) 1
Arrison, J.W., see Chapuran, T. ... A272 (1988) 767
Arrison, J.W., see Balamuth, D.P. ... A275 (1989) 315
Arrott, A.S., see Vaknin, D. ... A273 (1988) 447
Arruda-Neto, J.D.T., The use of electron accelerators for analysis of induced fission tracks ... A280 (1989) 483
Artamonov, A., V. Epstein, A. Ganginov, P. Gorbunov, E. Grigoriev, V. Jemanov, V. Khovansky, Yu. Kornelyuk, A. Maslennikov, A. Rozanov, M. Ryabinin, V. Zaitsev and S. Zeldovich, Detection of transition radiation with plastic streamer tubes ... A279 (1989) 531
Artemi, C., see Benvenuti, A.C. ... A276 (1989) 94
Artemi, C., see Alpat, B. ... A277 (1989) 260
Artemi, C., see Cartwright, S. ... A277 (1989) 269
Artemi, F., see Bari, G. ... A277 (1989) 11
Artusi, G., L. Biffoni, S. Bimbi, P. Capiluppi, L. Degli Esposti, M.M. Deninno, F. Fabbri, M. Ferrari, G. Giacomelli, S. Marcellini, L. Marradi, F. Massera, A. Montanari, F. Odorici, O. Polgrossi, F. Rimondi, A.M. Rossi, G. Sanzani, S. Tuffanelli, R. Lorenzi, A.H. Ball, R.L. Bard, D. Bensen, C. Cates, J.D. Colmer, P. Floros, P.R. Goldey, R.G. Kellogg, J.R. Lee, W.W. Miller, D.T. Norkin, P. Rapp, P.S. Rozmarynowski, M. San Sebastian, J. Schultz, G.P. Siroli, A. Skuja, R.W. Springer, P.H. Steinberg, T. Zawistowski, G.T. Zorn, E. Jin and H. Wang, Limited streamer tubes for the OPAL hadron calorimeter ... A279 (1989) 523
Arvieux, J., S.D. Baker, A. Boudard, J. Cameron, T. Hasegawa, D. Hutcheon, C. Kerboul, G. Gaillard and Nguyen Van Sen, Deuteron polarimetry studies at low and intermediate energies ... A273 (1988) 48
Aryal, M., see Bari, G. ... A277 (1989) 11
Ascoli, G., see Abe, F. ... A271 (1988) 387
Ashford, V., see Coyle, P. ... A273 (1988) 858
Ashikaga, K., see Sano, T. ... A275 (1989) 346
Astier, P., see Dominik, W. ... A278 (1989) 779
Astur, R., see D0 Calorimeter Group ... A280 (1989) 36
Atac, M., see Abe, F. ... A271 (1988) 387
Atac, M., see DiBitonto, D. ... A279 (1989) 100
Atiya, M., M. Ito, J. Haggerty, C. Ng and F.W. Sippach, Waveform digitizing at 500 MHz ... A279 (1989) 180
Au, R., see Angius, S.A. ... A273 (1988) 283
Aubert, B., J. Colas, Ph. Ghez, J.C. Lacotte, B. Mours, I. Wingerter and M. Yvert, First use of a neutron burst generator to calibrate a U–TMP calorimeter ... A279 (1989) 126
Auchincloss, P., see Abe, F. ... A271 (1988) 387
Audet, S.A., see Kuykens, H.J.P. ... A273 (1988) 570
Audet, S.A. and E.M. Schooneveld, High-purity silicon radiation-sensor array ... A275 (1989) 517
Audet, S.A., see Schooneveld, E.M. ... A275 (1989) 597
Avenier, M., see Ait-Boubker, S. ... A277 (1989) 461
Awes, T.C., A neural-network approach to the problem of photon-pair combinatorics ... A276 (1989) 468
Awes, T.C., C. Baktash, R.P. Cumby, R.L. Ferguson, A. Franz, T.A. Gabriel, H.A. Gustafsson, H.H. Gutbrod, J.W. Johnson, B.W. Kolb, I.Y. Lee, F.E. Obenshain, A. Oskarsson, I. Otterlund, S. Persson, F. Plasil, A.M. Poskanzer, H.G. Ritter, H.R. Schmidt, S.P. Sorensen and G.R. Young, The mid-rapidity calorimeter for the relativistic heavy-ion experiment WA80 at CERN ... A279 (1989) 479
Awes, T.C., see Young, G.R. ... A279 (1989) 503
Ayres, R., see Penner, S. ... A272 (1988) 73
Azemoon, T., see Chen, C. ... A272 (1988) 713
Azemoon, T., see L3 Collaboration ... A275 (1989) 71
Azorín, J., see Furetta, C. ... A280 (1989) 318

Baba, K., see Endo, I. ... A280 (1989) 144
Babaev, A., see ARGUS Collaboration ... A275 (1989) 1
Babson, J., see Matsuno, S. ... A276 (1989) 359
Babucci, F., see Alpat, B. ... A277 (1989) 260
Bacchetta, N., A. Cavestro, G. Pasquali, L. Peruzzo, G. Sartori and M. Vascon, A video readout system to measure events detected in a self-shunted streamer chamber ... A273 (1988) 172
Bacchetta, N., see Benvenuti, A.C. ... A276 (1989) 94

Bacci, C., S. Centro, M. De Giorgi and R. Martinelli, A hybrid charge sensitive amplifier for high capacitance detectors . . . A273 (1988) 321
Bacci, C., see UA1 Collaboration . . . A279 (1989) 114
Bacci, C., see UA1 Experiment . . . A279 (1989) 169
Bachmann, U., see L3 Collaboration . . . A275 (1989) 71
Baciocco, G., see Mayers, J. . . . A275 (1989) 453
Baciocco, G., see Andreani, C. . . . A276 (1989) 297
Backenstoss, G., see Petković, T. . . . A273 (1988) 833
Backenstoss, G., see CPLEAR Collaboration . . . A279 (1989) 305
Bäcklund, Y., N.J. Coron, P. Delsing, B. Jonson, M. Lindroos, G. Nyman, H. Ravn, K. Riisager and H.H. Stroke, Micromachining of silicon for thermal and position-sensitive nuclear detector applications . . . A279 (1989) 555
Baden, A.R., see Abe, F. . . . A271 (1988) 387
Badino, G., see Bari, G. . . . A277 (1989) 11
Badino, G., see Aglietta, M. . . . A277 (1989) 23
Badurek, G., see Weinfurter, H. . . . A275 (1989) 233
Bagieu, G., see Ait-Boubker, S. . . . A277 (1989) 461
Bagliesi, G., see Albrizio, R. . . . A271 (1988) 449
Bagnolatti, E., see Manfredotti, C. . . . A271 (1988) 571
Bähr, J., H. Bärwolff, A.-E. Schwind, M. Thiele and G. Wiedemann, Laser cutting of plastic scintillator and light guide materials . . . A274 (1989) 145
Baillon, P., A. Braem, G. Gendre, G. Muratori and C. Nichols, An improved method for manufacturing accurate and cheap glass parabolic mirrors . . . A276 (1989) 492
Baillon, P., A. Braem, T. Ekelöf, G. Gendre, A. Hallgren, G. Muratori, C. Nichols, T. Rydqvist and S. Walles, Production of 300 paraboloidal mirrors with high reflectivity for use in the Barrel RICH counter in DELPHI at LEP . . . A277 (1989) 338
Bains, N., S.A. Baird, D. Campbell, M. Cawthraw, D. Charlton, J. Coughlan, E. Eisenhandler, N. Ellis, I. Fensome, P. Flynn, S. Galagedera, J. Garvey, G. Grayer, J. Gregory, R. Halsall, M.P. Jimack, P. Jovanovic, I.R. Kenyon, M. Landon, T.P. Shah and R. Stephens, UA1 upgrade first-level calorimeter trigger processor . . . A279 (1989) 297
Baird, S.A., see Bains, N. . . . A279 (1989) 297
Bairi, B.R., see Kekre, H.B. . . . A279 (1989) 596
Baker, E., see Alburger, D.E. . . . A276 (1989) 127
Baker, S.D., see Arvieux, J. . . . A273 (1988) 48
Baker, W., see Engels Jr, E. . . . A279 (1989) 272
Bakich, A.M., R.C. Cederblad, P.R. Gerhardy, J. Malos, M. Omori, L.S. Peak, C.J. Sheerman and P. Soler, The Sydney underground solar neutrino detector . . . A273 (1988) 853
Bakich, A.M., R.C. Cederblad, P.R. Gerhardy, M. Omori, L.S. Peak and R.L. Walsh, Measurement of underground gamma ray spectra for solar neutrino studies . . . A278 (1989) 565
Bakken, J.A., L. Barone, J.J. Blaising, T. Boehringer, B. Borgia, D. Boutigny, J.P. Burq, M. Chemarin, R. Clare, G. Coignet, P. Denes, F. De Notaristefani, M. Diemoz, C. Dionisi, H. Elmamouni, P. Extermann, S. Falciano, F. Ferroni, G. Gratta, B. Ille, P. Kaaret, Y. Karyotakis, P. Klok, P. Lebrun, P. Lecoq, P.J. Li, E. Longo, D. Luckey, L. Luminari, J.P. Martin, M. Micke, U. Micke, G. Morand, S. Morganti, J. Ossmann, P.A. Piroué, W. Ruckstuhl, S. Salsedo, G. Sauvage, T.P. Schaad, D. Schmitz, M. Schneegans, D.P. Stickland, R.L. Sumner, C. Taylor, E. Valente, M. Vivargent, L. Vuilleumier, W. Walk, R. Weill and T. Wynen, High energy cosmic muons and the calibration of the L3 electromagnetic calorimeter . . . A275 (1989) 81
Bakken, J.A., L. Barone, J.J. Blaising, T. Boehringer, B. Borgia, D. Boutigny, J.P. Burq, M. Chemarin, R. Clare, G. Coignet, P. Denes, F. De Notaristefani, M. Diemoz, C. Dionisi, H. Elmamouni, P. Extermann, S. Falciano, F. Ferroni, G. Gratta, B. Ille, P. Kaaret, Y. Karyotakis, P. Klok, P. Lebrun, P. Lecoq, P.J. Li, E. Longo, D. Luckey, L. Luminari, M. Maire, J.P. Martin, M. Micke, U. Micke, G. Morand, S. Morganti, J. Ossmann, P.A. Piroue, C. Rondinini, W. Ruckstuhl, G. Sauvage, T.P. Schaad, D. Schmitz, M. Schneegans, D.P. Stickland, R.L. Sumner, C. Taylor, E. Valente, M. Vivargent, L. Vuilleumier, W. Walk, R. Weil and T. Wynen, Study of the energy calibration of a high resolution electromagnetic calorimeter . . . A280 (1989) 25
Baktash, C., see Awes, T.C. . . . A279 (1989) 479
Baktash, C., see Young, G.R. . . . A279 (1989) 503
Balabayev, A.N., N.A. Vasilyev, D.G. Koshkarev, S.V. Latyshev, A.R. Peuto, I.V. Rudskoy, G.V. Ryazanov, A.N. Talyzin and Yu.N. Cheblukov, Experimental program of heavy-ion fusion research in ITEP . . . A278 (1989) 148
Balamuth, D.P., see Chapuran, T. . . . A272 (1988) 767
Balamuth, D.P., T. Chapuran and J.W. Arrison, Applications of complete reconstruction of multi-particle final states in fusion–evaporation reactions using a 4π detector . . . A275 (1989) 315
Baldin, B., see Brown, C. . . . A279 (1989) 331
Baldini, R., see Albrizio, R. . . . A271 (1988) 449
Baldini-Celio, R., G. Bencivenni, F. Bossi, P. Campana, G. Capon, G. De Ninno, B. D'Ettorre Piazzoli, G.

Felici, P. Laurelli, G. Mannocchi, F. Murtas, G.P. Murtas, G. Nicoletti, P. Picchi and H. Rigoni, A study of low hydrocarbon content gas mixtures for streamer tubes A280 (1989) 45
Baldwin, A.R., see Watson, J.W. A272 (1988) 750
Balić Žunić, T. and S. Ščavničar, The crystallochemical behaviour of thallium and lead in the lorandite-type sulfosalts A271 (1988) 304
Ball, A.H., see Artusi, G. A279 (1989) 523
Ball, R.C., see Chen, C. A272 (1988) 713
Ball, R.C., see L3 Collaboration A275 (1989) 71
Ballarin, S., see Bassato, G. A275 (1989) 340
Ballocchi, G., see Engels Jr, E. A279 (1989) 272
Ballon, D., see Piqué, A. A279 (1989) 579
Bambade, P.S., see Hawkes, C.M. A274 (1989) 27
Bamberger, A., see ZEUS Calorimeter Group A274 (1989) 134
Bamberger, A., J. Lehmann, D. Schäcke and M. Wülker, Calibration of the ZEUS calorimeter A277 (1989) 46
Ban Yong, see Lu Xiting A272 (1988) 909
Bancroft, P.G. and P.M. Chalk, A microprocessor-controlled device for isotope-ratio measurements by mass spectrometry (*Letter to the Editor*) A275 (1989) 192
Bandyopadhyaya, S.K., S.K. Basu, S. Bhattacharya, R.K. Bhowmik, A. Chakrabarti, S.K. Datta, G.S.N. Murthy and Y.P. Viyogi, An axial ionization chamber for heavy ion identification A278 (1989) 467
Bangerter, R.O., Recent progress in inertial confinement fusion at Livermore A278 (1989) 34
Bangerter, R.O., see Langdon, A.B. A278 (1989) 68
Bannenberg, J.G., see Urbanus, W.H. A276 (1989) 433
Bannenberg, J.G., see Wojke, R.G.C. A278 (1989) 318
Bannenberg, J.G., see Urbanus, W.H. A278 (1989) 339
Bantly, J., see Clark, A.R. A279 (1989) 243
Banville, F., see Gascon, J. A278 (1989) 491
Baptista, G.B., see Dias Da Cunha, K.M.A. A280 (1989) 492
Baracat, A., see Alitti, J. A273 (1988) 135
Barbagli, G., see Bari, G. A277 (1989) 11
Barbagli, G., see Dwurażny, A. A277 (1989) 176
Barbaro-Galtieri, A., see Abe, F. A271 (1988) 387
Barber, G.J., A.T. Belk, R. Beuselinck, D.M. Binnie, W. Cameron, M. Cattaneo, P.J. Dornan, S. Dugeay, R.W. Forty, D.A. Garbutt, D.N. Gentry, J.F. Hassard, A.P. Heinson, M. MacDermott, D.G. Miller, D.R. Price, J.K. Sedgbeer, A.T. Watson and A.P. White, Performance of the three-dimensional readout of the ALEPH inner tracking chamber A279 (1989) 212
Barbieri, R.S., see Sperisen, F. A274 (1989) 604
Bard, R.L., see Artusi, G. A279 (1989) 523
Bareyre, P., see Alitti, J. A273 (1988) 135
Bareyre, P., see Ansorge, R.E. A273 (1988) 826
Bareyre, P., see Alitti, J. A279 (1989) 364
Bargholtz, Chr., B. Ritzén and P.-E. Tegnér, A BaF_2–BGO detector for high-energy gamma rays (*Letter to the Editor*) A279 (1989) 668
Bari, G., M. Basile, G. Bruni, G. Cara Romeo, A. Castelvetri, L. Cifarelli, A. Contin, C. Del Papa, P. Guisti, G. Iacobucci, G. Maccarrone, T. Massam, R. Nania, V. O'Shea, F. Palmonari, E. Perotto, G. Sartorelli, M. Willutzky, M. Aryal, K. De, A.M. Shapiro, M. Widgoff, J.A. Chincellato, C. Dobrigkeit-Chincellato, A.C. Fauth, A. Turtelli, F. Rohrbach, A. Zichichi, L. Caputi, G. Susinno, G. Barbagli, G. Conforto, G. Landi, P. Pelfer, G. Anzivino, S. Bianco, R. Casaccia, F. Cindolo, M. Defelice, Y. Dong, M. Enorini, F.L. Fabbri, C. Jing, I. Laakso, S. Qian, Z. Shi, A. Spallone, Y. Sun, L. Votano, A. Zallo, K. Lau, F. Lipps, B. Mayes, G.H. Mo, L. Pinsky, J. Pyrlik, D. Sanders, W.R. Sheldon, R. Weinstein, Y. Dai, L. Din, G. Jing, Z. Lu, P. Shen, Q. Zhu, D. Alyea, T. Kitamura, Y. Minorikawa, G. Di Sciascio, R. Scrimaglio, P. Rotelli, G.E. Kocharev, V. Vasileyev, M. Deutsch, E.S. Hafen, P. Haridas, B. Jeckelmann, G. Ji, H.H. Huang, C.S. Mao, A. Pitas, I.A. Pless, S.W. Wang, Y.R. Wu, Y.R. Yuan, C.Z. Zhao, V.S. Berezinsky, V.L. Dadykin, F.F. Khaichukov, E.V. Korolkova, P.V. Kortchaguin, V.B. Kortchaguin, V.A. Kudryavtsev, A.S. Markov, V.G. Ryassny, O.G. Ryazhskaya, V.P. Talochkin, V.F. Yakushev, G.T. Zatsepin, J. Moromisato, E. Saletan, D. Shambroom, E. Von Goeler, N. Takahashi, I. Yamamoto, T. Wada, G. D'Ali, S. De Pasquale, B. Alpat, F. Artemi, M. Italiani, P. Diodati, P. Salvadori, A. Misaki, N. Inoue, T. Hara, C. Aglietta, G. Badino, L. Bergamasco, C. Castagnoli, A. Castellina, G. Cini, M. Dardo, W. Fulgione, P. Galeotti, P. Ghia, C. Morello, G. Navarra, L. Periale, P. Picchi, O. Saavedra, G.C. Trinchero, P. Vallania, S. Vernetto, F. Grianti and F. Vetrano, The large-volume detector (LVD) – A multipurpose underground detector at Gran Sasso A277 (1989) 11
Barlow, D.B., B.M.K. Nefkens, C.T. Pillai and K.W. Jones, Production of high momentum negative pions by 800 MeV protons at 0° to 20° A271 (1988) 471

Barlow, D.B., see Wightman, J.A. ... A275 (1989) 281
Barlow, D.B., see Kessler, R.S. ... A275 (1989) 285
Barlow, F., see Edmends, J.S. ... A273 (1988) 145
Barnard, J.J., E.T. Scharlemann and S.S. Yu, The stability of free electron lasers against filamentation ... A272 (1988) 467
Barnes, V.E., see Abe, F. ... A271 (1988) 387
Barone, L., see Bakken, J.A. ... A275 (1989) 81
Barone, L., see Bakken, J.A. ... A280 (1989) 25
Baroni, G., see Aoki, S. ... A274 (1989) 64
Barrea, R.A., see Mainardi, R.T. ... A280 (1989) 387
Barreau, G., see Heeg, P. ... A278 (1989) 452
Barreiro, F., see ZEUS Calorimeter Group ... A274 (1989) 134
Barrelet, E., see Braunschweig, W. ... A275 (1989) 246
Barrelet, E., see Moreau, F. ... A278 (1989) 417
Barrette, J., see Bianchi, L. ... A276 (1989) 509
Barros Leite, C.V., see Dias Da Cunha, K.M.A. ... A280 (1989) 492
Bärs, B., Variance and higher order signal moments in neutron flux measurements ... A275 (1989) 403
Barsotti, E., see Abe, F. ... A271 (1988) 387
Barstow, M.A., see Fraser, G.W. ... A273 (1988) 667
Barth, M., see Aoki, S. ... A274 (1989) 64
Bartha, G.T., D.L. Burke, P. Extermann, P.H. Garbincius, C.A. Hawkins, M.J. Jonker, L. Keller, C. Matteuzzi, N.A. Roe, T.R. Steele, A.S. Johnson, J.S. Whitaker, R.J. Wilson, C. Hearty, J.E. Rothberg, K.K. Young and R.J. Hollebeek, Design and performance of the ASP lead-glass calorimeter ... A275 (1989) 59
Bartlett, J.F., see D0 Calorimeter Group ... A280 (1989) 36
Bartley, J.H., see Aoki, S. ... A274 (1989) 64
Bärwolff, H., see Bähr, J. ... A274 (1989) 145
Basile, M., see Bari, G. ... A277 (1989) 11
Basini, G., F. Bongiorno, A. Morselli, M. Occhigrossi, M. Ricci, P. Spillantini, A. Codino, C. Grimani, M. Menichelli, E. Rongoni, I. Salvatori, P. Picozza, L. De Bortoli and C. Bianchi, A fast, low power consumption readout system for a space based calorimeter ... A276 (1989) 367
Basov, Yu.A., see Aristov, V.V. ... A274 (1989) 390
Bassato, G., Y.N. Lou, G. Maron, G. Prete, A. Tivelli, M. Morando, S. Ballarin and A. Gervasoni, A versatile compact multiparameter data acquisition system ... A275 (1989) 340
Basti, G., see CHARM II Collaboration ... A278 (1989) 670
Basu, P., see Bhattacharya, P. ... A276 (1989) 585
Basu, S.K., see Bandyopadhyaya, S.K. ... A278 (1989) 467
Bateman, J.E., Detectors for condensed matter studies ... A273 (1988) 721
Bateman, J.E., G.R. Moss, P. Rockett and S. Webb, Digital X-ray microscopy with a microfocal X-ray generator and an MWPC area detector ... A273 (1988) 767
Batignani, G., see Albrizio, R. ... A271 (1988) 449
Batignani, G., L. Bosisio, E. Focardi, F. Forti, M.A. Giorgi, G. Tonelli and G. Triggiani, Development of double side readout silicon strip detectors ... A273 (1988) 677
Batignani, G., F. Bosi, L. Bosisio, A. Conti, E. Focardi, F. Forti, M.A. Giorgi, G. Parrini, E. Scarlini, P. Tempesta, G. Tonelli and G. Triggiani, Double-sided readout silicon strip detectors for the ALEPH minivertex ... A277 (1989) 147
Batista, L.R., see Tatumi, S.H. ... A280 (1989) 510
Batten, J.R., Evaluation of passivated ion implanted planar silicon detectors for the spectroscopy and assay of low energy electrons ... A277 (1989) 478
Battiston, R., see Benvenuti, A.C. ... A276 (1989) 94
Battiston, R., see Alpat, B. ... A277 (1989) 260
Battiston, R., see Cartwright, S. ... A277 (1989) 269
Battistoni, G., V. Chiarella, U. Denni and J. Reynoldson, The use of n-hexane in the gas mixture for streamer tubes ... A276 (1989) 140
Battistoni, G., Tracking techniques in underground physics ... A279 (1989) 137
Bauche, T., see De Winter, K. ... A277 (1989) 83
Bauche, T., see De Winter, K. ... A277 (1989) 170
Bauche, T., see CHARM II Collaboration ... A278 (1989) 670
Bauer, D., see Coyle, P. ... A273 (1988) 858
Bauer, G., see UA1 Collaboration ... A279 (1989) 83
Baumann, F.M., see Matulewicz, T. ... A274 (1989) 501
Baumann, F.M., see Brinkmann, K.-Th. ... A276 (1989) 557
Baumann, P., see Guillaume, G. ... A277 (1989) 458

Baumard, L., see Joyce, D. A279 (1989) 189
Baumeister, H., see Wüstenbecker, S. A279 (1989) 448
Baumgart, R., C. Grupen, H.-J. Meyer and U. Schäfer, Electron–pion discrimination in an iron/streamer tube calorimeter up to 100 GeV A272 (1988) 722
Baumgartner, M.E., see Engelage, J. A277 (1989) 431
Baumvol, I.J.R., see Stedile, F.C. A280 (1989) 552
Baumvol, I.J.R., see Vasconcellos, M.A.Z. A280 (1989) 557
Bay, A., C. Joseph, J.F. Loude, J.P. Perroud, D. Ruegger, O. Schöri, D. Steiner and M.T. Tran, A modular NaI(Tl) detector for intermediate energy photons A271 (1988) 497
Bazin, C., see Prazeres, R. A272 (1988) 68
Bazin, C., see Couprie, M.E. A272 (1988) 166
Bazin, C., see Couprie, M.E. A278 (1989) 788
Beaulieu, M., see Gascon, J. A278 (1989) 491
Beck, D., G. Retzlaff, W. Turchinetz, K.I. Blomqvist, P. Demos, G. Dodson, K. Dow, J. Dzengeleski, J. Flanz, G. Karageorge, F. Masse, T. Russ, C. Russo, W. Sapp, C.P. Sargent, C. Williamson, R. Goloskie, M. Farkhondeh and R. Whitney, A cryogenic tritium target system for nuclear physics experiments A277 (1989) 323
Beck, R., see Gothe, R.W. A276 (1989) 233
Becker, H.W., see Seuthe, S. A272 (1988) 814
Becker, H.W., see Neldner, K. A274 (1989) 419
Becker, H.W., see Wüstenbecker, S. A279 (1989) 448
Becker, K., see Völk, H.-G. A279 (1989) 443
Becker, U., J. Branson, M. White, B. Wysloucb, B. Zhou, M. Cerrada, E. Gonzales, J.A. Rubio, J. Salicio, C. Willmott, P. Diunker, H. v.d. Graaf, F. Hartjes, G.G.G. Massaro, D. Antreasyan, P. McBride, K. Strauch, P.G. Seiler, M. Gettner and C. Zabounidis, Accurate measurements of high momenta, Nucl. Instr. and Meth. A263 (1988) 14–19 (*Erratum*) A274 (1989) 411
Becker, U., see Adeva, B. A277 (1989) 187
Beconcini, F., see Benvenuti, A.C. A276 (1989) 94
Beconcini, F., G.M. Bilei, R. Castaldi, U. Cazzola, R. Dell'Orso and P.G. Verdini, The front-end electronics and the Fastbus readout module for the SLD limited streamer tubes A277 (1989) 222
Becraft, W.B., see Murphy, B.D. A275 (1989) 157
Bedeschi, F., see Abe, F. A271 (1988) 387
Bednarek, B., P. Olko and J. Booz, Double peak effect in microdosimetric proportional counters and its interpretation A274 (1989) 349
Beeman, J., see Silver, E.H. A277 (1989) 657
Begalli, M., C. Caso, P. Checchia, N. Colino, Ch. Defoix, J. Dolbeau, C. Fisher, J. Fry, D. Gibaut, M.I. Josa, L. Lyons, M.E. Michalon-Mentzer, A. Michalon and K. Roberts, Estimation of the lifetime of short-lived particles using their production characteristics A276 (1989) 105
Behnke, T., see Clark, A.R. A279 (1989) 243
Beingessner, S.P., see Armitage, J.C. A271 (1988) 588
Beingessner, S.P., T.C. Meyer and M. Yvert, Influence of chemical trace additives on the future ageing of the UA1 central detector A272 (1988) 669
Beingessner, S.P., T.C. Meyer, A. Norton, M. Pimiä, C. Rubbia and V. Vuillemin, First running experience with the laser calibration system of the UA1 Central Detector A279 (1989) 253
Bekefi, G., see Hartemann, F. A272 (1988) 125
Belakhovsky, M., see Sainctavit, Ph. A273 (1988) 423
Beleal, E., see Engelage, J. A277 (1989) 431
Belforte, S., see Abe, F. A271 (1988) 387
Belforte, S., see Apollinari, G. A277 (1989) 138
Belforte, S., see Apollinari, G. A279 (1989) 396
Belk, A.T., see Barber, G.J. A279 (1989) 212
Bell, J.S., see Bell, M. A275 (1989) 258
Bell, M. and J.S. Bell, Quantum bremsstrahlung in almost uniform fields A275 (1989) 258
Bellazzini, R., see Angelini, F. A276 (1989) 258
Bellettini, G., see Abe, F. A271 (1988) 387
Belli, P. and A. Incicchitti, Performances of a detector for high precision monitoring of a low energy γ-ray beam (*Letter to the Editor*) A276 (1989) 656
Bellia, G., see Alba, R. A271 (1988) 553
Bellinger, J., see Abe, F. A271 (1988) 387
Belusevic, R. and G. Nixon, Transputer-based readout controller A277 (1989) 513
Bemrose, C.R., P. Fowles, M.R. Hawkesworth and M.A. O'Dwyer, Application of positron emission tomography to particulate flow measurement in chemical engineering processes A273 (1988) 874

Ben-Zvi, I., B.V. Elkonin, J.S. Sokolowski and D. Sellmann, Current leads for HERA A276 (1989) 53
Benage Jr, J.F., R.R. Stevens Jr and R.A. Stern, A fundamental limit to the polarized current density produced by the Lamb-shift polarized ion source A274 (1989) 13
Benayoun, M., see WA76 Collaboration A274 (1989) 165
Bencivenni, G., see Albrizio, R. A271 (1988) 449
Bencivenni, G., see Baldini-Celio, R. A280 (1989) 45
Benczer-Koller, N., see Piqué, A. A279 (1989) 579
Bender, S.C., see Gitomer, S.J. A272 (1988) 610
Benka, O., see Steinbauer, E. A272 (1988) 834
Benlloch, J.M², see Allen, P. A277 (1989) 347
Bennett, S.J., see Woods, P.J. A276 (1989) 195
Bensen, D., see Artusi, G. A279 (1989) 523
Bensinger, J., see Abe, F. A271 (1988) 387
Benson, R., see Engels Jr, E. A279 (1989) 272
Benson, S.V., see Bhowmik, A. A272 (1988) 10
Benson, S.V., J. Schultz, B.A. Hooper, R. Crane and J.M.J. Madey, Status report on the Stanford Mark III infrared free electron laser A272 (1988) 22
Benson, S.V., see Hooper, B.A. A272 (1988) 96
Benson, S.V., see Bhowmik, A. A272 (1988) 183
Benson, S.V., see Curtin, M.S. A272 (1988) 187
Benson, S.V., A. Cutolo, J.M. Madey and J.F. Schultz, *Q*-switched optical cavities for free electron lasers A272 (1988) 499
Bentvelsen, P., see Britton, D.T. A273 (1988) 343
Benvenuti, A.C., G. Callegari, L. Piemontese, A. Calcaterra, R. De Sangro, P. De Simone, I. Peruzzi, M. Piccolo, W. Busza, S.L. Cartwright, J.I. Friedman, S. Fuess, S. Gonzalez, T. Hansl-Kozanecka, H.W. Kendall, T. Lyons, L.S. Osborne, L. Rosenson, U. Schneekloth, F.E. Taylor, R. Verdier, D. Williams, J.M. Yamartino, N. Bacchetta, D. Bisello, A. Castro, M. Loreti, L. Pescara, D. Toniolo, J. Wyss, B. Alpat, C. Artemi, R. Battiston, G.M. Bilei, C. Cappelletti, R. Dell'Orso, G. Mantovani, M. Pauluzzi, M. Scarlatella, L. Servoli, F. Beconcini, R. Castaldi, C. Vannini, P.G. Verdini, B.L. Byers, D. Kharakh, R.L. Messner, R.W. Zdarko and J.R. Johnson, The iron calorimeter and muon identifier for SLD A276 (1989) 94
Beran, P., see Anisimov, Yu.S. A273 (1988) 731
Berdoz, A., see Sperisen, F. A274 (1989) 604
Berdugo, J., see Adeva, B. A277 (1989) 187
Beretvas, A., see Abe, F. A271 (1988) 387
Berezinsky, V.S., see Bari, G. A277 (1989) 11
Berg, D., see Engels Jr, E. A279 (1989) 272
Bergamasco, L., see Bari, G. A277 (1989) 11
Bergamasco, L., see Aglietta, M. A277 (1989) 23
Bergé, P., see Abe, F. A271 (1988) 387
Berger, F., see Albrecht, R. A276 (1989) 131
Berger, J., M. Bermond, P. Besson, J. Favier, H. Pessard and M. Poulet, Photomultiplier gain monitoring at the one percent level with a blue light pulser A279 (1989) 343
Berger, R.G., see Quimby, D.C. A272 (1988) 192
Bergeret, H., see Boussoukaya, M. A279 (1989) 405
Bergher, M., see Prazeres, R. A272 (1988) 68
Bergher, M., see Couprie, M.E. A272 (1988) 166
Bergmann, H., see Buttler, W. A273 (1988) 778
Bergsma, F., see De Winter, K. A277 (1989) 83
Bergsma, F., see De Winter, K. A277 (1989) 170
Bergsma, F., see CHARM II Collaboration A278 (1989) 670
Berk, H., see Miley, G. A271 (1988) 217
Berk, H., see Kulsrud, R. A271 (1988) 222
Berk, H.L., see Momota, H. A271 (1988) 7
Berk, H.L., M.N. Rosenbluth and H.V. Wong, Flute interchange $m = 1$ mode in migma A271 (1988) 107
Berlovich, E.Ye., see Alkhazov, G.D. A280 (1989) 141
Berman, B.L., see Engelage, J. A277 (1989) 431
Berman, L.E., see Schneider, J.R. A276 (1989) 636
Bermond, M., see Berger, J. A279 (1989) 343
Bernardi, E., see ZEUS Calorimeter Group A274 (1989) 134
Berni, L., see Aramaki, E.A. A280 (1989) 597
Berridge, S.C., see SICAPO Collaboration A279 (1989) 57
Berry, A., see Lewis, R. A273 (1988) 773

Berst, J.D., see Bloch, D. ... A273 (1988) 847
Bertolucci, S., see Abe, F. ... A271 (1988) 387
Bertrand, C., see SICAPO Collaboration ... A279 (1989) 57
Bertrand, C., see Borchi, E. ... A279 (1989) 277
Bertrand, D., see Aoki, S. ... A274 (1989) 64
Bertrand-Coremans, G., see Aoki, S. ... A274 (1989) 64
Bertuccio, G., see Radeka, V. ... A275 (1989) 536
Besançon, M., see Braunschweig, W. ... A275 (1989) 246
Besson, P., see Berger, J. ... A279 (1989) 343
Beusch, W., see WA76 Collaboration ... A274 (1989) 165
Beusch, W., see Angelini, C. ... A277 (1989) 132
Beuselinck, R., see Barber, G.J. ... A279 (1989) 212
Beuville, E., see Ansari, R. ... A279 (1989) 388
Beyer, H.F. and D. Liesen, Ray tracing of curved-crystal X-ray optics for spectroscopy on fast ion beams ... A272 (1988) 895
Beyer, R., see De Winter, K. ... A277 (1989) 83
Beyer, R., see De Winter, K. ... A277 (1989) 170
Beyer, R., see CHARM II Collaboration ... A278 (1989) 670
Beynon, T.D., M.R. Hawkesworth, T.R. Mathews and M.A. O'Dwyer, Positron emission holography; a new method of creating positron camera images ... A273 (1988) 908
Beynon, T.D., Shell and higher-order corrections to the stopping power of fast ions in hot dense plasma ... A278 (1989) 56
Bhadra, S., see Abe, F. ... A271 (1988) 387
Bhandari, R.K., see Sarma, P.R. ... A274 (1989) 431
Bhandari, R.K., see Pandit, V.S. ... A276 (1989) 21
Bhargavi, S.G., see Apte, A.R. ... A273 (1988) 403
Bhattacharjee, A., see Gjaja, I. ... A272 (1988) 293
Bhattacharjee, A., see Gjaja, I. ... A272 (1988) 297
Bhattacharjee, A., see Cai, S.Y. ... A272 (1988) 481
Bhattacharya, D., see Owens, A. ... A275 (1989) 416
Bhattacharya, P., P. Basu and M.L. Chatterjee, Performance of a position-sensitive multistep parallel-plate avalanche chamber ... A276 (1989) 585
Bhattacharya, R., see Sinha, B.K. ... A276 (1989) 237
Bhattacharya, R., see Bose, S. ... A277 (1989) 587
Bhattacharya, S., see Bandyopadhyaya, S.K. ... A278 (1989) 467
Bhaumik, D., see Santra, L. ... A280 (1989) 402
Bhowmik, A., M.S. Curtin, W.A. McMullin, S.V. Benson, J.M.J. Madey, B.A. Richman and L. Vintro, First operation of the Rocketdyne/Stanford free electron laser ... A272 (1988) 10
Bhowmik, A., see Cover, R.A. ... A272 (1988) 117
Bhowmik, A., J.M.J. Madey and S.V. Benson, Design concept for a common rf accelerator driven free electron laser master oscillator/power amplifier ... A272 (1988) 183
Bhowmik, A., see Curtin, M.S. ... A272 (1988) 187
Bhowmik, A., S. Bitterly, R.A. Cover, P. Kennedy and R.H. Labbe, Transverse mode control in high gain free electron lasers with grazing incidence, unstable ring resonators ... A272 (1988) 524
Bhowmik, R.K., see Bandyopadhyaya, S.K. ... A278 (1989) 467
Biagi, S.F. and P.S.L. Booth, High accuracy measurements of drift time in the streamer mode ... A273 (1988) 530
Biagi, S.F., Accurate solution of the Boltzmann transport equation ... A273 (1988) 533
Białkowski, J., M. Moszyński and D. Wolski, A pulse shape discriminator with high precision of neutron and gamma ray selection at high counting rate ... A275 (1989) 322
Bianchi, C., see Basini, G. ... A276 (1989) 367
Bianchi, F., see Checchia, P. ... A275 (1989) 49
Bianchi, F., see DELPHI Forward ElectroMagnetic Group ... A279 (1989) 473
Bianchi, L., B. Fernandez, J. Gastebois, A. Gillibert, W. Mittig and J. Barrette, SPEG: an energy loss spectrometer for GANIL ... A276 (1989) 509
Bianco, S., see Bari, G. ... A277 (1989) 11
Bidoli, V., see Braunschweig, W. ... A275 (1989) 246
Bienz, T., see Coyle, P. ... A273 (1988) 858
Bieser, F., see Engelage, J. ... A277 (1989) 431
Biffoni, L., see Artusi, G. ... A279 (1989) 523
Bigazzi, G., J.C. Hadler and S.R. Paulo, On indoor radon contamination monitoring with SSNTDs: experimental results concerning plate-out and self-plate-out effects ... A280 (1989) 506
Biino, C., R. Mussa, S. Palestini, N. Pastrone and L. Pesando, Charge division in a small proportional chamber constructed with aluminized mylar tubes ... A271 (1988) 417

Bilei, G., see Alpat, B. A277 (1989) 260
Bilei, G., see Cartwright, S. A277 (1989) 269
Bilei, G.M., see Benvenuti, A.C. A276 (1989) 94
Bilei, G.M., see Beconcini, F. A277 (1989) 222
Bilello, J.C., see Moini, H. A280 (1989) 137
Bilenky, M.S., see Antipov, Yu.M. A274 (1989) 452
Billardon, M., see Prazeres, R. A272 (1988) 68
Billardon, M., see Couprie, M.E. A272 (1988) 166
Billardon, M., see Couprie, M.E. A278 (1989) 788
Biller, S.D., D. Kabat, R.C. Allen, G. Bühler and P.J. Doe, Effects of oxygen and nitrogen on drifting electrons in a liquid argon TPC A276 (1989) 144
Bimbi, S., see Artusi, G. A279 (1989) 523
Bimbot, R., see Deutsch, C. A278 (1989) 38
Bimbot, R., see Weyrich, K. A278 (1989) 52
Binder, U., see ARGUS Collaboration A275 (1989) 1
Binder, U., see De Winter, K. A277 (1989) 83
Binder, U., see De Winter, K. A277 (1989) 170
Binder, U., see CHARM II Collaboration A278 (1989) 670
Bingefors, N., see Burns, M. A277 (1989) 154
Binkley, M., see Abe, F. A271 (1988) 387
Binnie, D.M., see Barber, G.J. A279 (1989) 212
Binns, W.R., see Davis, A.J. A276 (1989) 347
Binon, F.G., see IHEP–IISN–LANL–LAPP Collaboration A276 (1989) 652
Bird, F., see Coyle, P. A273 (1988) 858
Birstein, L., see Alburger, D.E. A276 (1989) 127
Birx, D.L., see Oettinger, P.E. A272 (1988) 264
Bisello, D., see Benvenuti, A.C. A276 (1989) 94
Bishop, J.M., see Toothacker, W.S. A273 (1988) 97
Bisi, V., see Aoki, S. A274 (1989) 64
Biswas, N.N., see Toothacker, W.S. A273 (1988) 97
Bitterly, S., see Bhowmik, A. A272 (1988) 524
Bizek, V., see Anisimov, Yu.S. A273 (1988) 731
Bjerregard, J.H., see Moszyński, M. A280 (1989) 73
Bjurman, B., B. Erlandsson and S. Mattsson, Simultaneous measurements of radioactive noble gases and aerosols in the vicinity of a nuclear power station A274 (1989) 324
Blair, R., see Abe, F. A271 (1988) 387
Blaising, J.J., see Bakken, J.A. A275 (1989) 81
Blaising, J.J., see Bakken, J.A. A280 (1989) 25
Blake, M.L., Precessional stabilization of the $m = 1$ interchange mode in low density migma plasmas A271 (1988) 126
Blank, B., see LeGrand, A.D. A275 (1989) 442
Blatt, K., see Völk, H.-G. A279 (1989) 443
Blau, J., see Colson, W.B. A272 (1988) 386
Blaylock, G., see Alitti, J. A279 (1989) 364
Blazey, G.C., see D0 Calorimeter Group A280 (1989) 36
Błędowski, A., see Żakowicz, W. A272 (1988) 532
Blewett, J.P., Space charge limit in a relativistic migma A271 (1988) 212
Blewett, J.P., Ring magnets in migma systems A271 (1988) 214
Blinov, A.E., A.E. Bondar, A.D. Bukin, S.G. Klimenko, G.M. Kolachev, A.P. Onuchin, A.G. Shamov, V.I. Telnov, Yu.A. Tikhonov and V.N. Zhilich, Luminosity measurement with the MD-1 detector at VEPP-4 ... A273 (1988) 31
Blobel, V., see De Winter, K. A277 (1989) 83
Blobel, V., see De Winter, K. A277 (1989) 170
Blobel, V., see CHARM II Collaboration A278 (1989) 670
Bloch, D., M. Dracos, W. Dulinski, D. Husson, P. Juillot, M. Schaeffer, E. Aria, J.D. Berst, E. Christophel, J.P. Froberger, N. Mayet, G. Van Apeldoorn, D. Langerveld, N. De Koning, D.Z. Toet and Th. Ypma, The multiwire proportional chambers of the DELPHI barrel RICH A273 (1988) 847
Blocker, C., see Abe, F. A271 (1988) 387
Blomgren, J., see Håkansson, A. A273 (1988) 211
Blomqvist, K.I., see Beck, D. A277 (1989) 323
Bloodworth, I.J., see WA76 Collaboration A274 (1989) 165
Bloodworth, I.J., see Angelini, C. A277 (1989) 132
Bluem, H., see Freund, H.P. A272 (1988) 556

Bluem, H., H.P. Freund and C.L. Chang, Harmonic content in a planar wiggler based free electron laser amplifier . . . A272 (1988) 579
Blume, H.T., see Braunschweig, W. . . . A275 (1989) 246
Blumenfeld, H., M. Bourdinaud, P. Rebourgeard and J.C. Thevenin, Production and test of coherent bundles of plastic scintillating microfibers (*Letter to the Editor*) . . . A278 (1989) 619
Blumenfeld, H., M. Bourdinaud and A.V. Stirling, Ageing of scitillating fibers, natural and otherwise . . . A279 (1989) 281
Blyth, C.O., see Karban, O. . . . A274 (1989) 4
Bobbink, G.J., see Adeva, B. . . . A277 (1989) 187
Bocchetta, C.J. and A. Wrulich, The trapping and clearing of ions in Elettra . . . A278 (1989) 807
Bock, R., see Albrecht, R. . . . A276 (1989) 131
Bock, R., Overview of the German program on high energy density produced by heavy ion beams . . . A278 (1989) 7
Bock, R., see Hoffmann, D.H.H. . . . A278 (1989) 44
Böckmann, P., see ARGUS Collaboration . . . A275 (1989) 1
Boehringer, T., see Bakken, J.A. . . . A275 (1989) 81
Boehringer, T., see Bakken, J.A. . . . A280 (1989) 25
Bofill, J., see Abe, F. . . . A271 (1988) 387
Bofill, J., see Womersley, W.J. . . . A278 (1989) 447
Bogdanov, D.D., see Yeremin, A.V. . . . A274 (1989) 528
Bogert, D., see Womersley, W.J. . . . A278 (1989) 447
Böhlen, W., see Chen, C. . . . A272 (1988) 713
Böhlen, W.E., see L3 Collaboration . . . A275 (1989) 71
Böhm, A., V. Commichau, H. Fesefeldt, P. Göttlicher, T. Hamacher, K. Hangarter, U. Herten, C. Neyer, P. Schmitz, R. Schulte, T. Spickermann, M. Tonutti, M. Bourquin, M. Nusbaumer, J. Perrier, N. Produit, K. Deiters, R. Leiste, W. Lohmann, W.-D. Nowak, U. Röser, M. Sachwitz, H. Anderhub, M. Dhina, I. Dimitrović, J. Fehlmann, H.P. v. Gunten, H. Hofer, R. Holzreuter, X. Lue, M. Macdermott, A. Pichler, M. Pohl, D. Ren, G. Viertel and L. Zehnder, Right–left ambiguity resolution in a time expansion chamber . . . A273 (1988) 471
Böhne, D., Status report on the SIS/ESR project . . . A278 (1989) 19
Bohne, W., see Nakagawa, T. . . . A271 (1988) 523
Boiano, C., G. Lo Bianco and P. Sala, A preamplifier for BGO–NaI anti-Compton shields . . . A275 (1989) 329
Boissier, G., see ISOCELE Collaboration . . . A274 (1989) 485
Boivin, L.P. and D.S. Hanna, Studies of bis-MSB wavelength shifter for application in a supernova neutrino detector . . . A273 (1988) 397
Bologna, G., see Albrizio, R. . . . A271 (1988) 449
Bolton, T., see Adler, J. . . . A276 (1989) 42
Bonamy, P., see Alitti, J. . . . A273 (1988) 135
Bonamy, P., see Ansorge, R.E. . . . A273 (1988) 826
Bonamy, P., see Alitti, J. . . . A279 (1989) 364
Bondar, A.E., see Blinov, A.E. . . . A273 (1988) 31
Bongiorno, F., see Basini, G. . . . A276 (1989) 367
Bonham, R.A., see Sperisen, F. . . . A274 (1989) 604
Boni, R., V. Chimenti, B. Spataro, F. Tazzioli, P. Fernandes and R. Parodi, Design and operation of a multipacting-free 51.4 MHz rf accelerating cavity . . . A274 (1989) 49
Boniface, J., see UA1 Experiment . . . A279 (1989) 169
Boniface, J., J. Ditta, L. Gonzalez-Mestres, L. Massonnet, D. Meylan and D. Perret-Gallix, Experimental results on superheated superconducting granules at ^{3}He temperatures . . . A279 (1989) 376
Bonifacio, R. and B.W.J. McNeil, Slippage and superradiance in the high-gain FEL . . . A272 (1988) 280
Bonifacio, R. and L. De Salvo Souza, Optical bistability in a relativistic electron beam . . . A272 (1988) 551
Bonifacio, R. and L. De Salvo Souza, Tuning and slippage optimization in a high-gain FEL with a waveguide (*Letter to the Editor*) . . . A276 (1989) 394
Bonino, R., see UA1 Experiment . . . A279 (1989) 169
Bonvicini, G., R. Frey, E. Gero, W. Koska, C. Field and A. Minten, A monitor for gamma radiation at zero degrees from the SLC collision point . . . A277 (1989) 297
Booske, J.H., see Granatstein, V.L. . . . A272 (1988) 110
Booth, A.W., see Abe, F. . . . A271 (1988) 387
Booth, C.N., see Ansorge, R.E. . . . A273 (1988) 826
Booth, C.N., see Alitti, J. . . . A279 (1989) 364
Booth, P.S.L., see Biagi, S.F. . . . A273 (1988) 530
Booz, J., see Bednarek, B. . . . A274 (1989) 349
Borchert, G.L., D. Gotta, H.R. Koch, R. Salziger, H.J. Probst, O.W.B. Schult and R. Lässer, Feasibility study for an investigation of the neutrino rest mass through high resolution spectroscopy of the external bremsstrahlung from tritium decay . . . A274 (1989) 507

Borchi, E., see SICAPO Collaboration A279 (1989) 57
Borchi, E., C. Bertrand, C. Leroy, M. Bruzzi, C. Furetta, R. Paludetto, P.G. Rancoita, L. Vismara and P. Giubellino, Deep-level transient spectroscopy measurements of majority carrier traps in neutron-irradiated n-type silicon detectors A279 (1989) 277
Bordas, J., see Lewis, R. A273 (1988) 773
Borders, J., see D0 Calorimeter Group A280 (1989) 36
Borer, K., A.G. Clark, O. Gildemeister, C. Gössling, E.H.M. Heijne, P. Jarron, B. Lisowski, T. Pal, M.A. Parker and N. Redaelli, The implementation and performance of a 1 m^2 silicon hodoscope array in UA2 and proposed construction of a second array A273 (1988) 605
Borer, K., see Ansari, R. A279 (1989) 388
Borges, J.C., see Anjos, M.J. A280 (1989) 535
Borgia, B., see Bakken, J.A. A275 (1989) 81
Borgia, B., M. Diemoz and S. Morganti, A method to calibrate the light response of a high resolution electromagnetic calorimeter with cosmic rays A278 (1989) 699
Borgia, B., F. Ferroni and E. Longo, Ultrafine electromagnetic calorimetry: the Y(4s) case A279 (1989) 91
Borgia, B., see Bakken, J.A. A280 (1989) 25
Bornais, R., see Gascon, J. A278 (1989) 491
Borzeix, J., see Ridon, J. A272 (1988) 629
Boscolo, I., G. Brautti, V. Stagno and V. Variale, A high efficiency multistage collector for a low quality electron beam recovery A275 (1989) 184
Boscolo, I., V. Stagno and V. Variale, A small electrostatic accelerator for a powerful continuous-wave free electron laser A279 (1989) 646
Bose, S. and R. Bhattacharya, HPGe detector preamplifier output pulse simulator A277 (1989) 587
Bosi, F., see Apollinari, G. A277 (1989) 138
Bosi, F., see Batignani, G. A277 (1989) 147
Bosi, F., see Apollinari, G. A279 (1989) 396
Bösiger, K., see Robmann, P. A277 (1989) 368
Bosisio, L., see Batignani, G. A273 (1988) 677
Bosisio, L., see Batignani, G. A277 (1989) 147
Bosseler, K., D. Dorsel, U. Herten, M. Grünewald, M. Sachwitz and M. Tonutti, Test of a self-supporting detection gap, the Wellblech structure, for a time expansion chamber A277 (1989) 121
Bossi, F., see Albrizio, R. A271 (1988) 449
Bossi, F., see Baldini-Celio, R. A280 (1989) 45
Bottigli, U., see Albrizio, R. A271 (1988) 449
Bouchard, M., see Ansorge, R.E. A273 (1988) 826
Bouchez, J., see Aleksan, R. A273 (1988) 303
Bouchez, J., see Aleksan, R. A274 (1989) 203
Boudard, A., see Arvieux, J. A273 (1988) 48
Bouisset, P., see Wohrer, K. A274 (1989) 394
Bourdinaud, M., see Alitti, J. A273 (1988) 135
Bourdinaud, M., see Ansorge, R.E. A273 (1988) 826
Bourdinaud, M., see Blumenfeld, H. A278 (1989) 619
Bourdinaud, M., see Blumenfeld, H. A279 (1989) 281
Bourianoff, G., B. Moore, M. Rosenbluth, F. Waelbroeck, H. Waelbroeck and H.V. Wong, Adaptive eigenmode expansion for 3-D FEL simulations A272 (1988) 340
Bourotte, J., M. Haguenauer, E. Pare, V. Innocente, S. Lanzano, K. Kasahara, Y. Muraki, T. Yuda, A. Nakamoto, H. Murakami, T. Doke, T. Kashiwagi, J. Kikuchi and K. Masuda, Energy and position resolution of silicon calorimeter used in the UA7 experiment A274 (1989) 129
Bourquin, M., see Böhm, A. A273 (1988) 471
Boussicut, M., see Aleksan, R. A273 (1988) 303
Boussoukaya, M., H. Bergeret, R. Chehab, B. Leblond and J. Le Duff, High quantum yield from photofield emitters A279 (1989) 405
Boutigny, D., see Bakken, J.A. A275 (1989) 81
Boutigny, D., see Bakken, J.A. A280 (1989) 25
Bouvet, J.P., see Chianelli, C. A273 (1988) 245
Bowden, G., D. Burke, C. Field and W. Koska, Retractable carbon fibre targets for measuring beam profiles at the SLC collision point A278 (1989) 664
Bowen, M., see Zorn, C. A271 (1988) 701
Bowen, M., see Zorn, C. A273 (1988) 108
Bowen, M., see Zorn, C. A276 (1989) 58
Bowen, M., S. Majewski, J. Walker and C. Zorn, A new radiation-hard plastic scintillator (*Letter to the Editor*) . A276 (1989) 391

Bower, C.R., see Nutter, S.L. A273 (1988) 389
Box, P.F., see Van Melle, J.C.C. A277 (1989) 584
Boyd, J.K., W.B. Colson and E.T. Scharlemann, Initial electron distributions for free electron lasers generated by injector and accelerator simulations A272 (1988) 590
Boyd, R.N., see Islam, M.S. A276 (1989) 647
Bradaschia, C., see Albrizio, R. A271 (1988) 449
Bradley, D.A., C.S. Chong, A.A. Tajuddin, A. Shukri and A.M. Ghose, Small-angle coherent gamma-ray scattering at 662 keV for Pb and Sn A280 (1989) 207
Bradley, D.A., D.R. Dance, S.H. Evans and C.H. Jones, A study of molecular correlations observed in the small-angle photon scattering distributions of 60 keV photons interacting with low-atomic-number media .. A280 (1989) 380
Bradley, D.A., C.S. Chong, A. Shukri, A.A. Tajuddin and A.M. Ghose, A new method for the direct measurement of the energy absorption coefficient of gamma rays A280 (1989) 392
Brady, F.P., see Ford, T.D. A274 (1989) 253
Brady, F.P., see Engelage, J. A277 (1989) 431
Braem, A., see Baillon, P. A276 (1989) 492
Braem, A., see Baillon, P. A277 (1989) 338
Bragagnini, W., see Annunziata, M. A271 (1988) 597
Brammer, R.C., J.R. Helliwell, W. Lamb, A. Liljas, P.R. Moore, A.W. Thompson and K.A. Rathbone, A new protein crystallography station on the SRS wiggler beamline for very rapid Laue and rapidly tunable monochromatic experiments: I. Design principles, ray tracing and heat calculations A271 (1988) 678
Brand, K., see Neldner, K. A274 (1989) 419
Brandenburg, G., see Abe, F. A271 (1988) 387
Brandenburg, J.E., A highly diamagnetic, finite length migma equilibrium based on a new adiabatic invariant .. A271 (1988) 148
Brandon, S.T., see Ho, D.D.-M. A278 (1989) 182
Branford, D., see Gothe, R.W. A276 (1989) 233
Branson, J., see Adeva, B. A277 (1989) 187
Brasse, F.W., see Braunschweig, W. A275 (1989) 246
Brau, J.E. and T.A. Gabriel, Comments on "On the energy resolution of uranium and other hadron calorimeters" (*Letter to the Editor*) A275 (1989) 190
Brau, J.E. and T.A. Gabriel, Theoretical studies of hadronic calorimetry for high luminosity, high energy colliders A279 (1989) 40
Brau, J.E., see SICAPO Collaboration A279 (1989) 57
Braun, D., see CHARM II Collaboration A278 (1989) 670
Braunschweig, W., F.J. Kirschfink, J. Tutas, E. Vogel, M. Widgoff, F.W. Brasse, W. Flauger, J. Gayler, V. Korbel, J. Marks, C. Zeitnitz, F. Brinker, S. Brinkmann, P. Hartz, K. Rauschnabel, A. Walther, D. Wegener, V. Brisson, D. Lellouch, P. Perrodo, C. Vallée, A.J. Campbell, K. Lau, F. Lipp, R. Weinstein, H.T. Blume, H. Greif, J. Huber, C. Kiesling, D. Lüers, H. Oberlack, P. Schacht, E. Von Goeler, J. Moromisato, B. Delcourt, A. Jacholkowska, E. Barrelet, J. Duboc, H.K. Nguyen, V. Bidoli, F. Ferrarotto, B. Stella, M. Besançon, G. Cozzika, M. David, J. Feltesse, A. De Lesquen, P. Verrecchia, G. Villet and U. Straumann, Performance of a Pb–Cu liquid argon calorimeter with an iron streamer tube tail catcher A275 (1989) 246
Brautti, G., see Boscolo, I. A275 (1989) 184
Bravo-Ortega, A., see Jiménez-Domínguez, H. A278 (1989) 625
Brede, H.J., G. Dietze, K. Kudo, U.J. Schrewe, F. Tancu and C. Wen, Neutron yields from thick Be targets bombarded with deuterons or protons A274 (1989) 332
Brennan, J.M., see Piqué, A. A279 (1989) 579
Brenner, A., see Abe, F. A271 (1988) 387
Breskin, A., see Drees, A. A273 (1988) 793
Breskin, A., R. Chechik, Z. Fraenkel, D. Sauvage, V. Steiner, I. Tserruya, G. Charpak, W. Dominik, J.P. Fabre, J. Gaudaen, F. Sauli, M. Suzuki, P. Fischer, P. Glässel, H. Ries, A. Schön and H.J. Specht, A highly efficient low-pressure UV-RICH detector with optical avalanche recording A273 (1988) 798
Breskin, A., see Sauvage, D. A275 (1989) 351
Breslin, A.C., see Aoki, S. A274 (1989) 64
Brez, A., see Angelini, F. A276 (1989) 258
Bricman, C., see IHEP–IISN–LANL–LAPP Collaboration A276 (1989) 652
Brinker, F., see Braunschweig, W. A275 (1989) 246
Brinkman, A.C., see Mels, W.A. A273 (1988) 689
Brinkmann, K.-Th., J. Kiesewetter, F.M. Baumann, H. Freiesleben, H.J. Lütke-Stetzkamp, H.J. Paul, H.G. Schwanke and H. Sohlbach, Comparison of different methods for the determination of fission fragment velocity, mass, and energy distributions for ^{232}Th(n, f) A276 (1989) 557
Brinkmann, S., see Braunschweig, W. A275 (1989) 246
Briscoe, W.J., see Kessler, R.S. A275 (1989) 285

Brisson, V., see Braunschweig, W. ... A275 (1989) 246
Britton, D.T., P. Bentvelsen, J. De Vries and A. Van Veen, Deconvolution of Doppler-broadened positron annihilation lineshapes by fast Fourier transformation using a simple automatic filtering technique ... A273 (1988) 343
Britton, D.T. and A. Van Veen, Noniterative fitting of deconvoluted positron annihilation lineshapes ... A275 (1989) 387
Brock, R., see Womersley, W.J. ... A278 (1989) 447
Bromberg, C., see Engels Jr, E. ... A279 (1989) 272
Bronckaers, E., see Debusschere, I. ... A273 (1988) 636
Bronson, M., see Engelage, J. ... A277 (1989) 431
Bross, A.D., see D0 Calorimeter Group ... A280 (1989) 36
Broszkiewicz, D., see De Bellefon, A. ... A277 (1989) 211
Brown, C., D. Eartly, D. Green, H. Haggerty, S. Hansen, H. Jöstlein, E. Malamud, P. Martin, N. Oshima, R. Yamada, T. Marshall, S. Kunori, M. Fortner, D. Hedin, D. Kaplan, T. Kramer, Yu. Antipov, B. Baldin, D. Denisov, S. Denisov, V. Glebov and N. Mokhov, DØ muon system with proportional drift tube chambers ... A279 (1989) 331
Brown, D., see Abe, F. ... A271 (1988) 387
Brown, D., see Engels Jr, E. ... A279 (1989) 272
Brown, I.G., see Spädtke, P. ... A278 (1989) 643
Brückel, H., see Wilke, W. ... A272 (1988) 785
Brückner, J., see Yadav, J.S. ... A277 (1989) 591
Brückner, W., see Heintze, J. ... A277 (1989) 29
Bruère-Dawson, R., see De Bellefon, A. ... A277 (1989) 211
Brunetti, L., see Manfredotti, C. ... A271 (1988) 571
Bruni, G., see Bari, G. ... A277 (1989) 11
Brusa, R.S., see De Vries, J. ... A275 (1989) 194
Brutscher, J., see Gerhard, A. ... A278 (1989) 220
Bruzzi, M., see SICAPO Collaboration ... A279 (1989) 57
Bruzzi, M., see Borchi, E. ... A279 (1989) 277
Buchanan, C., see UA1 Collaboration ... A279 (1989) 83
Buchholz, D., see Clark, A.R. ... A279 (1989) 243
Büchler, K., see Anton, G. ... A274 (1989) 222
Buchner, U., J.P. Donker, B. Spaan, J. Spengler, G. Schweda, D. Wegener and W. Schmidt-Parzefall, Performance of a scintillating glass calorimeter for electromagnetic showers ... A272 (1988) 695
Buckley, E., M. Campanella, G. Carugno, C. Cattadori, A. Gonidec, R. Muñoz, S. Ochsenbein, C. Rubbia, D. Schinzel, W.F. Schmidt and W. Seidl, A study of ionization electrons drifting over large distances in liquid argon ... A275 (1989) 364
Budinich, M., R. Crevatin and P. Giannetti, The data acquisition system for the Clue cosmic ray experiment ... A273 (1988) 315
Budyashova, S.Yu., V.P. Zrelov and E.S. Kuzmin, The Cherenkov method of simultaneous determination of the mean energy and direction of a 650 MeV proton beam ... A277 (1989) 304
Bugarski, P., D. Veselinović and M.K. Pavićević, A chemical treatment of ore from the Crven Dol deposit from Allchar ... A271 (1988) 320
Bugg, W.M., see SICAPO Collaboration ... A279 (1989) 57
Bühler, G., see Biller, S.D. ... A276 (1989) 144
Bui Van, N.A., I.M. Martin, A. Turtelli Jr., Yu.I. Stozhkov, V.V. Sibikin and M.I. Fradkin, Electron measurements in the lower atmosphere near the South-Atlantic magnetic anomaly ... A280 (1989) 419
Bukin, A.D., see Blinov, A.E. ... A273 (1988) 31
Bunnell, K., see Adler, J. ... A276 (1989) 42
Buon, J., Semiclassical spin diffusion model compared to quantum calculation of depolarization in electron storage rings ... A275 (1989) 219
Buon, J., Spin-matching conditions for 90° spin rotators which incorporate quadrupoles ... A275 (1989) 226
Buran, T., see Olsen, A. ... A273 (1988) 565
Buraschi, M., see Alessandrello, A. ... A279 (1989) 142
Burger, J., see Adeva, B. ... A277 (1989) 187
Bürger, J., L. Criegee, G. Franke, H. Klär, J. Meyer, J. Schug, M. Schulz, P. Steffen, P. Waloschek, G.G. Winter, W. Zimmermann, U. Gaethke, E. Schenuit and H. Spitzer, The central JET chamber of the H1 experiment ... A279 (1989) 217
Burgos, C., see Adeva, B. ... A277 (1989) 187
Burkard, H., see De Winter, K. ... A277 (1989) 83
Burkard, H., see De Winter, K. ... A277 (1989) 170
Burke, D., see Bowden, G. ... A278 (1989) 664
Burke, D.L., see Bartha, G.T. ... A275 (1989) 59
Burkhard, H., see CHARM II Collaboration ... A278 (1989) 670
Burns, M., H. Dijkstra, R. Horisberger, L. Hubbeling, B.D. Hyams, G. Maehlum, A. Peisert, J.P. Vanuxem, P. Weilhammer, A. Zalewska, W. Krupinski, H. Palka, M. Turala, T. Palenius, E. Sundell, T. Tuuva, M. Caccia,

W. Kucewicz, C. Meroni, M. Pegoraro, N. Redaelli, R. Turchetta, A. Stocchi, C. Troncon, G. Vegni, M. Mazzucato, F. Simonetto, G. Zumerle, P. Allport, G. Kalmus, P. Seller, J. Stanton, M. Tyndel and N. Bingefors, Progress in the construction of the DELPHI microvertex detector A277 (1989) 154
Burq, J.P., see Bakken, J.A. A275 (1989) 81
Burq, J.P., see Bakken, J.A. A280 (1989) 25
Busch, B., see Ulrich, A. A278 (1989) 72
Buschmann, J., see Gils, H.J. A276 (1989) 151
Buschmann, J., see Gils, H.J. A276 (1989) 169
Busetto, G., see UA1 Experiment A279 (1989) 169
Büsser, F.W., see De Winter, K. A277 (1989) 83
Büsser, F.W., see De Winter, K. A277 (1989) 170
Büsser, F.W., see CHARM II Collaboration A278 (1989) 670
Busza, W., see Benvenuti, A.C. A276 (1989) 94
Butala, S.W., see Cossairt, J.D. A276 (1989) 78
Butler, M.J., see Robertson, S.H. A279 (1989) 599
Butler, R.C., see Court, A.J. A273 (1988) 706
Butsch, R., see Völk, H.-G. A279 (1989) 443
Buttler, W., G. Lutz, H. Bergmann, H. Dietl, D. Hauff, P. Holl and P.F. Manfredi, Low noise–low power monolithic multiplexing readout electronics for silicon strip detectors A273 (1988) 778
Buttler, W., A. Caldwell, C. Hayes, L. Hervas, A. Hofmann, B. Hosticka, R. Klanner, U. Kötz, P. Malecki, J. Möschen, J. Del Peso, U. Schöneberg and W. Sippach, Design and performance of a 10 MHz CMOS analog pipeline A277 (1989) 217
Buttler, W., V. Liberali, G. Lutz, F. Maloberti, P.F. Manfredi, V. Re and V. Speziali, JFET-CMOS microstrip front-end A279 (1989) 204
Buurmans, H.B., see Mels, W.A. A273 (1988) 689
Byers, B.L., see Benvenuti, A.C. A276 (1989) 94
Byers, J.A. and R.H. Cohen, A microwave FEL code using waveguide modes A272 (1988) 595
Byon, A., see Abe, F. A271 (1988) 387
Byrd, R.C. and W.C. Sailor, Neutron detection efficiency for NE213 and BC501 scintillators at energies between 25 and 200 MeV A274 (1989) 494
Byrd, R.C., see Sailor, W.C. A277 (1989) 599
Byrum, K.L., see Abe, F. A271 (1988) 387

Cabral-Prieto, A., see Jiménez-Domínguez, H. A278 (1989) 625
Cabrera, B., J. Martoff and B. Neuhauser, Acoustic detection of single particles A275 (1989) 97
Caccia, M., see Burns, M. A277 (1989) 154
Caccia, M., see Dijkstra, H. A277 (1989) 160
Caciuffo, R., see Coppola, R. A280 (1989) 583
Cade, W.B., see Gagliardi, C.A. A273 (1988) 117
Cai, S.Y., S.P. Chang, J.W. Dodd, T.C. Marshall and H. Tang, Optical guiding in a Raman FEL: computation and experiment A272 (1988) 136
Cai, S.Y., A. Bhattacharjee and T.C. Marshall, "Diffraction-free" optical beams in inverse free electron laser accelerators A272 (1988) 481
Calabrese, R., V. Carassiti, P. Dalpiaz, P.F. Dalpiaz, E. Luppi, M. Martini, S. Palestini, F. Petrucci and M. Savrié, A cylindrical MWPC and radial projection chamber for the E760 experiment A277 (1989) 116
Calcaterra, A., see Benvenuti, A.C. A276 (1989) 94
Caldwell, A., see Buttler, W. A277 (1989) 217
Caldwell, D., see Coyle, P. A273 (1988) 858
Callegari, G., see Benvenuti, A.C. A276 (1989) 94
Callot, O., see Clark, A.R. A279 (1989) 243
Calore, M., G. Zanella and R. Zannoni, New results from an imaging CCD used as a position sensitive detector at standard TV rate and room temperature A278 (1989) 497
Cameron, J., see Arvieux, J. A273 (1988) 48
Cameron, W., see Barber, G.J. A279 (1989) 212
Camin, D.V., A 1 K front-end electronics for a cryogenic bolometric detector A277 (1989) 204
Camin, D.V., see Alessandrello, A. A279 (1989) 142
Camin, D.V., C. Cattadori, S. Lattore, F. Ragusa and G. Ranucci, Low-noise transformerless front-end electronics for moderate and high capacitance calorimeters A279 (1989) 195
Campana, D., see Adeva, B. A277 (1989) 187
Campana, P., see Albrizio, R. A271 (1988) 449
Campana, P., see Baldini-Celio, R. A280 (1989) 45

Campanella, M., see Buckley, E. ... A275 (1989) 364
Campbell, A.B., see Harihar, P. ... A272 (1988) 763
Campbell, A.J., see Braunschweig, W. ... A275 (1989) 246
Campbell, D., see Bains, N. ... A279 (1989) 297
Campbell, M., see Abe, F. ... A271 (1988) 387
Camporesi, T., C. Geara, F.L. Navarria, R. Seufert and G. Valenti, A setup for the calibration of the HPC readout chambers ... A277 (1989) 77
Camporesi, T., F.R. Cavallo, C. Chiccoli, G. Gamberini, P. Guisti, F.-L. Navarria, P. Pasini, P. Privitera and T. Rovelli, A scheme for the HPC second-level trigger ... A277 (1989) 230
Caner, A., see UA1 Experiment ... A279 (1989) 169
Cantoni, P., see Antipov, Yu.M. ... A274 (1989) 452
Capell, M., see L3 Collaboration ... A275 (1989) 71
Capiluppi, P., see Artusi, G. ... A279 (1989) 523
Capon, G., see Albrizio, R. ... A271 (1988) 449
Capon, G., see Baldini-Celio, R. ... A280 (1989) 45
Capone, A., see De Winter, K. ... A277 (1989) 83
Capone, A., see De Winter, K. ... A277 (1989) 170
Capone, A., see CHARM II Collaboration ... A278 (1989) 670
Caponero, M., see WA76 Collaboration ... A274 (1989) 165
Cappelletti, C., see Benvenuti, A.C. ... A276 (1989) 94
Caputi, L., see Bari, G. ... A277 (1989) 11
Cara Romeo, G., see Bari, G. ... A277 (1989) 11
Carassiti, V., see Calabrese, R. ... A277 (1989) 116
Carbonara, F., see Adeva, B. ... A277 (1989) 187
Carboni, G., see Aoki, S. ... A274 (1989) 64
Carey, D., see Engels Jr, E. ... A279 (1989) 272
Carey, R., see Abe, F. ... A271 (1988) 387
Caria, M., see De Winter, K. ... A277 (1989) 83
Caria, M., see De Winter, K. ... A277 (1989) 170
Caria, M., see CHARM II Collaboration ... A278 (1989) 670
Carithers, W., see Abe, F. ... A271 (1988) 387
Carlin Filho, N., see Gomes, P.R.S. ... A280 (1989) 395
Carlin, R., see Gasparini, F. ... A273 (1988) 485
Carlomusto, L., see Cutolo, A. ... A272 (1988) 348
Carlomusto, L., see Chen, Y.-J. ... A272 (1988) 490
Carlsmith, D., see Abe, F. ... A271 (1988) 387
Carlson, K., W. Fann and J.M.J. Madey, Spatial distribution of visible coherent harmonics generated by the Mark III FEL ... A272 (1988) 92
Carlson, P., see CPLEAR Collaboration ... A279 (1989) 305
Carlsten, B.E. and K.C.D. Chan, Preliminary injector, accelerator, and beamline design for rf-linac-driven XUV free electron lasers ... A272 (1988) 208
Carlsten, B.E., D.W. Feldman, A.H. Lumpkin, J.E. Sollid, W.E. Stein and R.W. Warren, Emittance studies at the Los Alamos National Laboratory free electron laser ... A272 (1988) 247
Carnegie, R.K., see Armitage, J.C. ... A271 (1988) 588
Carnegie, R.K., see Roney, J.M. ... A279 (1989) 236
Carney, J.N., see WA76 Collaboration ... A274 (1989) 165
Carney, J.N., see Angelini, C. ... A277 (1989) 132
Caroli, E., see Court, A.J. ... A273 (1988) 706
Carosi, G., see Gasparini, F. ... A273 (1988) 485
Carpenter, J.M., D.F.R. Mildner, S.S. Cudrnak and R.O. Hilleke, The neutron transmission of single crystal MgO filters ... A278 (1989) 397
Carrier, C., see Lecomte, R. ... A278 (1989) 585
Carrier, C. and R. Lecomte, Trapping of fluorescent light in cylindrical scintillators (*Letter to the Editor*) ... A278 (1989) 622
Carroll, J.B., see Engelage, J. ... A277 (1989) 431
Carroll, J.T., see Abe, F. ... A271 (1988) 387
Carter, A.A., see Carter, J.R. ... A278 (1989) 725
Carter, A.A., see Roney, J.M. ... A279 (1989) 236
Carter, J.R., P.A. Elcombe, J.C. Hill, A.A. Carter, M.M.B. Lasota, P. Kyberd, S.L. Lloyd, D. Newman-Coburn, T.W. Pritchard and T.R. Wyatt, Measurement and prediction of the drift-distance/drift-time relationship of a small jet chamber operated with carbon dioxide/isobutane ... A278 (1989) 725
Carter, J.R., see Roney, J.M. ... A279 (1989) 236

Cartwright, S., U. Schneekloth, B. Alpat, C. Artemi, R. Battiston, G. Bilei, M. Italiani, M. Pauluzzi, L. Servoli, R. Messner, J. Wyss, R. Zdarko and J. Johnson, A study of nonflammable Ar–CO_2–hydrocarbon gas mixtures for limited streamer tubes ... A277 (1989) 269
Cartwright, S.L., see Benvenuti, A.C. ... A276 (1989) 94
Caruette, A., see ISOCELE Collaboration ... A274 (1989) 485
Carugno, G., see Buckley, E. ... A275 (1989) 364
Carvalho, F.G., see Margaça, F.M.A. ... A274 (1989) 606
Carvalho, F.G., see Salgado, J. ... A280 (1989) 530
Carvalho, S.M.M., see Dias Da Cunha, K.M.A. ... A280 (1989) 492
Casaccia, R., see Bari, G. ... A277 (1989) 11
Cashmore, R., see Abe, F. ... A271 (1988) 387
Casini, G., P.R. Maurenzig, A. Olmi and A.A. Stefanini, A new approach to the kinematic coincidence method in heavy ion reactions ... A277 (1989) 445
Caso, C., see Begalli, M. ... A276 (1989) 105
Casoli, P., see UA1 Experiment ... A279 (1989) 169
Cason, N.M., see Toothacker, W.S. ... A273 (1988) 97
Cassel, D.G., see Dwurażny, A. ... A277 (1989) 176
Cassell, R., see Adler, J. ... A276 (1989) 42
Castagnoli, C., see Bari, G. ... A277 (1989) 11
Castagnoli, C., see Aglietta, M. ... A277 (1989) 23
Castaldi, R., see Benvenuti, A.C. ... A276 (1989) 94
Castaldi, R., see Beconcini, F. ... A277 (1989) 222
Castaneda, C.M., see Ford, T.D. ... A274 (1989) 253
Castellano, M., see Cavallo, N. ... A272 (1988) 64
Castelli, E., see Checchia, P. ... A275 (1989) 49
Castelli, E., see DELPHI Forward ElectroMagnetic Group ... A279 (1989) 473
Castellina, A., see Bari, G. ... A277 (1989) 11
Castellina, A., see Aglietta, M. ... A277 (1989) 23
Castelvetri, A., see Bari, G. ... A277 (1989) 11
Castro, A., see Benvenuti, A.C. ... A276 (1989) 94
Catanesi, M.G., see Albrizio, R. ... A271 (1988) 449
Catanesi, M.G., see Aoki, S. ... A274 (1989) 64
Cates, C., see Artusi, G. ... A279 (1989) 523
Cates, G.D., see Coulter, K.P. ... A276 (1989) 29
Cates, G.D., V.W. Hughes, R. Michaels, H.R. Schaefer, T.J. Gay, M.S. Lubell, R. Wilson, G.W. Dodson, K.A. Dow, S.B. Kowalski, K. Isakovich, K.S. Kumar, M.E. Schulze, P.A. Souder and D.H. Kim, The Bates polarized electron source ... A278 (1989) 293
Catford, W.N., see Ophel, T.R. ... A272 (1988) 734
Cattadori, C., see Buckley, E. ... A275 (1989) 364
Cattadori, C., see Camin, D.V. ... A279 (1989) 195
Cattaneo, M., see Barber, G.J. ... A279 (1989) 212
Cavaignac, J.F., see Ait-Boubker, S. ... A277 (1989) 461
Cavalli-Sforza, M., see Coyle, P. ... A273 (1988) 858
Cavallo, F.R., see Camporesi, T. ... A277 (1989) 230
Cavallo, N., F. Cevenini, M.R. Masullo, M. Castellano, S. Guiducci, P. Patteri, M.A. Preger and M. Serio, Final report on the LELA experiment ... A272 (1988) 64
Cavestro, A., see Bacchetta, N. ... A273 (1988) 172
Cawthraw, M., see Bains, N. ... A279 (1989) 297
Cazzola, U., see Beconcini, F. ... A277 (1989) 222
Cecchetti, A.M., see Aoki, S. ... A274 (1989) 64
Cecil, F.E. and S.S. Medley, Gamma ray measurements during deuterium and ^{3}He discharges on TFTR ... A271 (1988) 628
Cederblad, R.C., see Bakich, A.M. ... A273 (1988) 853
Cederblad, R.C., see Bakich, A.M. ... A278 (1989) 565
Celani, F., see Rindi, A. ... A272 (1988) 871
Cenci, P., see Ansari, R. ... A279 (1989) 388
Cennini, P., see UA1 Experiment ... A279 (1989) 169
Cennini, P., Z. Kulka and E. Petrolo, Optical data link for the U–TMP calorimeter of the UA1 experiment at CERN ... A279 (1989) 350
Centro, S., see Bacci, C. ... A273 (1988) 321
Ceradini, F., see UA1 Experiment ... A279 (1989) 169
Cerny, J., see Reiff, J.E. ... A276 (1989) 228

Černý, K., see Anisimov, Yu.S. ... A273 (1988) 731
Cerrada, M., see Adeva, B. ... A277 (1989) 187
Cervelli, F., see Abe, F. ... A271 (1988) 387
Cesar, M.T.F., see De Moraes, M.A.P.V. ... A277 (1989) 467
Cesareo, R., Using a computed tomography scanner for nonmedical applications ... A275 (1989) 420
Cesareo, R. and S. Mascarenhas, A new tomographic device based on the detection of fluorescent X-rays ... A277 (1989) 669
Cesaroni, F., E. Gennari and S. Gentile, A flexible timing unit: delay and clock generator (*Letter to the Editor*) ... A279 (1989) 671
Cevenini, F., see Cavallo, N. ... A272 (1988) 64
Chadwick, K., see Abe, F. ... A271 (1988) 387
Chakrabarti, A., see Bandyopadhyaya, S.K. ... A278 (1989) 467
Chalk, P.M., see Bancroft, P.G. ... A275 (1989) 192
Chalupka, A., see Hernegger, F. ... A278 (1989) 611
Chambon, B., see Guinet, D. ... A278 (1989) 614
Chan, K.C.D., see Carlsten, B.E. ... A272 (1988) 208
Chand, B., J. Goswamy, D. Mehta, S. Singh, M.L. Garg, N. Singh and P.N. Trehan, Precision measurements of K X- and gamma-ray intensities in ^{103}Ru, ^{131}Ba, ^{134}Cs and ^{166m}Ho decays ... A273 (1988) 310
Chang, C.L., see Freund, H.P. ... A272 (1988) 556
Chang, C.L., see Bluem, H. ... A272 (1988) 579
Chang, C.-L., see Mark, J.W.-K. ... A278 (1989) 186
Chang, C.R., see Kehne, D. ... A278 (1989) 194
Chang, C.R., see Rudd, H. ... A278 (1989) 198
Chang, S.-F., see Scharer, J. ... A272 (1988) 289
Chang, S.P., see Cai, S.Y. ... A272 (1988) 136
Chang, Y.H., see Adeva, B. ... A277 (1989) 187
Channell, P.J., Spectral evolution equation for the sideband instability in a free electron laser oscillator ... A272 (1988) 421
Chapin, T., see Abe, F. ... A271 (1988) 387
Chapline, G.F. and R.W. Moir, Production of muons for fusion catalysis using a migma configuration ... A271 (1988) 203
Chapline, G.F., Fission fragment rocket concept ... A271 (1988) 207
Chapuran, T., D.P. Balamuth, J.W. Arrison and J. Görres, Channel selection for in-beam γ-ray spectroscopy using a 4π phoswich array ... A272 (1988) 767
Chapuran, T., see Balamuth, D.P. ... A275 (1989) 315
Chardalas, M., see CPLEAR Collaboration ... A279 (1989) 305
Charlton, D., see Bains, N. ... A279 (1989) 297
CHARM II Collaboration, K. De Winter, J.P. Dewulf, D. Geiregat, P. Vilain, G. Wilquet, F. Bergsma, U. Binder, H. Burkhard, A. Capone, W. Flegel, B. Friend, H. Grote, A. King, C. Nieuwenhuis, H. Øverås, V. Palladino, J. Panman, G. Piredda, A. Seiden, K. Winter, G. Zacek, V. Zacek, T. Bauche, R. Beyer, V. Blobel, F.W. Büsser, C. Foos, L. Gerland, F. Niebergall, H. Riege, J. Schütt, P. Stähelin, A. Tadsen, T. Delbar, D. Favart, G. Grégoire, E. Knoops, T. Mouthuy, P. Gorbunov, E. Grigoriev, V. Jemanov, V. Khovansky, A. Maslennikov, A. Rosanov, D. Braun, W. Lippich, A. Nathaniel, A. Staude, M. Caria, A. Ereditato, E. Gorini, F. Grancagnolo, R. Iasevoli, P. Strolin, G. Basti, D. De Pedis, E. Di Capua, U. Dore, A. Frenkel-Rambaldi, S. Guerra, P.F. Loverre, R. Santacesaria and D. Zanello, A detector for the study of neutrino–electron scattering ... A278 (1989) 670
Charon, Y., J.C. Cuzon, H. Tricoire and L. Valentin, A high resolution β^- detector ... A273 (1988) 748
Charpak, G., The sources of inspiration in research on position-sensitive detectors ... A273 (1988) 463
Charpak, G., see Breskin, A. ... A273 (1988) 798
Charpak, G., see Miné, P. ... A273 (1988) 881
Charpak, G., W. Dominik, J.C. Santiard, F. Sauli and N. Solomey, Gaseous detectors with parallel electrodes and anode mesh planes ... A274 (1989) 275
Charpak, G., V. Peskov, F. Sauli and D. Scigocki, Ethyl ferrocene in gas, condensed, or adsorbed phases: three types of photosensitive elements for use in gaseous detectors ... A277 (1989) 537
Charpak, G., see Peskov, V. ... A277 (1989) 547
Charpak, G., see Dominik, W. ... A278 (1989) 779
Charpak, G., see Giomataris, Y. ... A279 (1989) 322
Chatterjee, A., Radiobiological effects of high-LET particles: DNA strand breaks ... A280 (1989) 439
Chatterjee, M.L., see Bhattacharya, P. ... A276 (1989) 585
Chatzigeogiou, T., see Alexandropoulos, N.G. ... A271 (1988) 543
Cheblukov, Yu.N., see Balabayev, A.N. ... A278 (1989) 148
Checchia, P., G. Galeazzi, U. Gasparini, I. Lippi, M. Mazzucato, M. Pegoraro, C. Pinori, F. Simonetto, L. Ventura, G. Zumerle, A. Lopez, J. Marco, A. Ruiz, F. Bianchi, R. Cirio, D. Gamba, E. Menichetti, G. Rinaudo, A. Romero, E. Castelli, L. Lanceri, P. Poropat, R. Ragazzon, M. Sessa, A. De Angelis, F. Scuri, F. Waldner, A. Ferrer, J.J. Gomez, A. Sebastia and J. Velasco, Performance of the forward electromagnetic

calorimeter (FEMC) for the end caps of the DELPHI detector . . . A275 (1989) 49
Checchia, P., see Begalli, M. . . . A276 (1989) 105
Checchia, P., see DELPHI Forward ElectroMagnetic Group . . . A279 (1989) 473
Chechik, R., see Drees, A. . . . A273 (1988) 793
Chechik, R., see Breskin, A. . . . A273 (1988) 798
Chechik, R., see Sauvage, D. . . . A275 (1989) 351
Chehab, R., see Boussoukaya, M. . . . A279 (1989) 405
Chemarin, M., see Bakken, J.A. . . . A275 (1989) 81
Chemarin, M., see Bakken, J.A. . . . A280 (1989) 25
Chen Yutao, see Su Yi . . . A272 (1988) 147
Chen, C., H.S. Chen, X.G. Li, Y.S. Lu, Y.F. Mao, X.W. Tang, K.L. Tung, C.N. Wang, K.S. Yang, Q.Y. Yang, H.L. Zhuang, H. Hofer, P. Lecomte, P. LeCoultre, Yu. Gorodkov, V. Kutsenko, V. Plyaskin, E. Shumilov, V. Tchudakov, W. Böhlen, H.T. Li, B. Spiess, J. Ulbricht, S.Y. Zhang, T. Azemoon, R.C. Ball, S. Goldfarb, L.W. Jones, G.B. Mills and B.P. Roe, The performance of an L3 hadron calorimeter prototype module with BGO . . . A272 (1988) 713
Chen, C., see L3 Collaboration . . . A275 (1989) 71
Chen, H.S., see Chen, C. . . . A272 (1988) 713
Chen, H.S., see L3 Collaboration . . . A275 (1989) 71
Chen, L., Remarks on the $m = 1$ flute mode . . . A271 (1988) 151
Chen, M.-B., W.-Z. Gao and D.-M. Li, Design criteria on a minicyclotron as a mass spectrometer for dating . . . A278 (1989) 402
Chen, M.-B., D.-M. Li, W.-Z. Gao, X.-L. Zhang and R.-F. Zhou, Adopting a non-sinusoidal wave dee voltage in minicyclotrons as mass spectrometers for dating . . . A278 (1989) 409
Chen, M.L., see Adeva, B. . . . A277 (1989) 187
Chen, Y., see Kehne, D. . . . A278 (1989) 194
Chen, Y.-J., E.T. Scharlemann and A.M. Sessler, Intrinsic corrections to optical guiding in a free electron laser . A272 (1988) 485
Chen, Y.-J., S. Solimeno and L. Carlomusto, Optical guiding in an FEL with full account of electron wiggling and 3D propagation . . . A272 (1988) 490
Chen, Y.-J., Simulations of high-brightness rf photocathode guns for LLNL–SLAC–LBL 1 GeV test experiment . . . A279 (1989) 433
Chen, Z., see Murakami, T. . . . A275 (1989) 112
Chepigin, V.I., see Yeremin, A.V. . . . A274 (1989) 528
Chernenko, S.P., see Anisimov, Yu.S. . . . A273 (1988) 731
Chernov, N.I., V.S. Kurbatov and G.A. Ososkov, Efficient estimator of parameters; goodness-of-fit test for multivariate distributions for data presented by one-dimensional histograms . . . A274 (1989) 547
Cherry, R., see Garate, E. . . . A272 (1988) 129
Chesi, E., see Aoki, S. . . . A274 (1989) 64
Chetioui, A., see Wohrer, K. . . . A274 (1989) 394
Cheu, E., see Adler, J. . . . A276 (1989) 42
Chevallier, P., see Wohrer, K. . . . A274 (1989) 394
Chevry, M., see Daubie, E. . . . A273 (1988) 553
Cheynis, B., see Guinet, D. . . . A278 (1989) 614
Chianelli, C., P. Ageron, J.P. Bouvet, M. Karolak, S. Martin and J.P. Robert, Weakly ionizing charged particle detectors with high efficiency using transitory electronic secondary emission of porous CsI . . . A273 (1988) 245
Chiappetti, L., see Court, A.J. . . . A273 (1988) 706
Chiarella, V., see Albrizio, R. . . . A271 (1988) 449
Chiarella, V., see Battistoni, G. . . . A276 (1989) 140
Chiarelli, G., see Abe, F. . . . A271 (1988) 387
Chiba, J., see Ninomiya, M. . . . A272 (1988) 727
Chiba, K., see Aoki, S. . . . A274 (1989) 64
Chiba, M., Y. Nakagawa, T. Wada, M. Koike, M. Kobayashi, T. Fujitani, T. Omori, S. Sugimoto and Y. Yamaguchi, A large silicon detector to measure the antiproton range in a liquid hydrogen target . . . A276 (1989) 122
Chiba, Y., see Amako, K. . . . A272 (1988) 687
Chiccoli, C., see Camporesi, T. . . . A277 (1989) 230
Chiefari, G., see Adeva, B. . . . A277 (1989) 187
Chien, C.Y., see Ma, H. . . . A274 (1989) 113
Chihladze, V.L., see Kuzminov, V.V. . . . A271 (1988) 257
Childers, R., see ARGUS Collaboration . . . A275 (1989) 1
Childs, R., see WA76 Collaboration . . . A274 (1989) 165
Chiles, M.M., see Larsen, I.L. . . . A279 (1989) 665
Chimenti, V., see Boni, R. . . . A274 (1989) 49
Chincellato, J.A., see Bari, G. . . . A277 (1989) 11

Chinowsky, W., see Abe, F. . . . A271 (1988) 387
Chi Yankun and Lu De, Ion capacitor, a new approach to generate high current pulsed nonprotonic ion beams (*Letter to the Editor*) . . . A274 (1989) 610
Cho, G., see Perez-Mendez, V. . . . A273 (1988) 127
Choi, H.D., see Karban, O. . . . A274 (1989) 4
Choi, W.C., see Durkin, L.S. . . . A277 (1989) 386
Chollet, F., A. Degré, J.C. Lacotte and J. Lecoq, The ECLine-driver: a flexible, 20 MHz, 256 words ECLine generator . . . A277 (1989) 497
Chong, C.S., see Bradley, D.A. . . . A280 (1989) 207
Chong, C.S., see Bradley, D.A. . . . A280 (1989) 392
Choudhary, B.C., see Engels Jr, E. . . . A279 (1989) 272
Christenson, J.H., see D0 Calorimeter Group . . . A280 (1989) 36
Christmas, P., see Woods, S.A. . . . A272 (1988) 924
Christophel, E., see Bloch, D. . . . A273 (1988) 847
Christopoulos, A.S., H. Hora, R.J. Stening, H. Loeb and W. Scheid, Geometric limitations of the efficient generation of antihydrogen in an intense laser focus . . . A271 (1988) 178
Chrusch Jr, P., see Jibaly, M. . . . A273 (1988) 161
Chu, C., see Du, X.W. . . . A272 (1988) 29
Chubaci, J.F.D. and S. Watanabe, Exoelectron emission from ion-implanted MgO single crystals . . . A280 (1989) 410
Chumakov, M., see L3 Collaboration . . . A275 (1989) 71
Chung, C. and C-J. Lee, Environmental monitoring using a HPGe–NaI(Tl) Compton suppression spectrometer A273 (1988) 436
Chupp, E.L., see Dunphy, P.P. . . . A274 (1989) 362
Chupp, E.L., see Owens, A. . . . A275 (1989) 416
Chupp, T.E., see Coulter, K.P. . . . A276 (1989) 29
Cicchitelli, L., see Kasotakis, G. . . . A278 (1989) 110
Cierjacks, S., see Petković, T. . . . A273 (1988) 833
Cifarelli, L., see Bari, G. . . . A277 (1989) 11
Ciftcioglu, Ö., J.E. Hoogenboom and H. Van Dam, Suboptimal processor for anomaly detection for system surveillance and diagnosis . . . A278 (1989) 532
Cihangir, S., see Abe, F. . . . A271 (1988) 387
Cilloco, F., R. Felici, A. Ippoliti and F. Sacchetti, Low cost pulsed neutron source and instrumentation . . . A276 (1989) 401
Cindolo, F., see Bari, G. . . . A277 (1989) 11
Cini, G., see Bari, G. . . . A277 (1989) 11
Cini, G., see Aglietta, M. . . . A277 (1989) 23
Cirio, R., see Checchia, P. . . . A275 (1989) 49
Cirio, R., see DELPHI Forward ElectroMagnetic Group . . . A279 (1989) 473
Cisař, M., see Anisimov, Yu.S. . . . A273 (1988) 731
Claes, D., see Clark, A.R. . . . A279 (1989) 243
Claesson, G., see Albrecht, R. . . . A276 (1989) 131
Claeys, C., see Vanstraelen, G. . . . A273 (1988) 625
Claeys, C., see Debusschere, I. . . . A273 (1988) 636
Claeys, C., see Vanstraelen, G. . . . A275 (1989) 574
Clara, M.P., see DELPHI Forward ElectroMagnetic Group . . . A279 (1989) 473
Clare, R., see Bakken, J.A. . . . A275 (1989) 81
Clare, R., see Bakken, J.A. . . . A280 (1989) 25
Clark, A.G., see Borer, K. . . . A273 (1988) 605
Clark, A.G., see Ansari, R. . . . A279 (1989) 388
Clark, A.R., F. Goozen, C. Klopfenstein, L.T. Kerth, S. Loken, M. Strovink, T.G. Trippe, J. Bantly, D. Buchholz, D. Claes, B. Gobbi, S. Rajagopalan, T. Behnke, O. Callot, J. Cochran, R. Engelmann, G. Finocchiaro, D. Pizzuto, G. Rahal-Callot, M. Rijssenbeek and F. Stocker, The central tracking detectors for DØ . . . A279 (1989) 243
Clark, D.A., see McClelland, J.B. . . . A276 (1989) 35
Clark, D.L., see Galovich, C.S. . . . A271 (1988) 483
Clark, G.S., see Abegg, R. . . . A273 (1988) 43
Clark, S.M., Energy-dispersive powder diffraction at the SRS . . . A276 (1989) 381
Clarke, D.T., see Richards, K.S. . . . A272 (1988) 889
Clarke, P., see Damerell, C.J.S. . . . A275 (1989) 484
Clarkson, G.P., see Ophel, T.R. . . . A272 (1988) 734
Cleff, B., see Wüstenbecker, S. . . . A279 (1989) 448
Clegg, T.B., see Robinson, H.G. . . . A278 (1989) 655
Clem, J., see Matsuno, S. . . . A276 (1989) 359

Clifford, P., see Lyons, L. A274 (1989) 557
Cline, D., see Abe, F. A271 (1988) 387
Cline, D., see UA1 Collaboration A279 (1989) 83
Cloth, P., see Anders, B. A277 (1989) 56
Cobau, W.G., see Womersley, W.J. A278 (1989) 447
Coburn, D.S., see Vaknin, D. A273 (1988) 447
Coc, A., R. Le Gac, M. De Saint Simon, C. Thibault and F. Touchard, Theoretical resolving power of a radiofrequency mass spectrometer A271 (1988) 512
Cochran, J., see Clark, A.R. A279 (1989) 243
Codino, A., see Basini, G. A276 (1989) 367
Coelho, P.R.P., A.A. Da Silva and J.R. Maiorino, Neutron energy spectrum measurements of neutron sources with an NE-213 spectrometer A280 (1989) 270
Coffield, F., see Kulke, B. A272 (1988) 241
Cohen, R.H., see Byers, J.A. A272 (1988) 595
Coignet, G., see Bakken, J.A. A275 (1989) 81
Coignet, G., A superconducting radiofrequency e^+e^- linear collider for bottom quark and nuclear physics studies A279 (1989) 16
Coignet, G., see Bakken, J.A. A280 (1989) 25
Coimbra, M.M., see Gomes, P.R.S. A280 (1989) 395
Colas, J., see Aubert, B. A279 (1989) 126
Colas, J., see UA1 Experiment A279 (1989) 169
Colino, N., see Begalli, M. A276 (1989) 105
Collot, J., see Aleksan, R. A273 (1988) 303
Collot, J., see Ait-Boubker, S. A277 (1989) 461
Colmer, J.D., see Artusi, G. A279 (1989) 523
Colson, W.B. and J. Blau, Parameterizing physical effects in free electron lasers A272 (1988) 386
Colson, W.B., see Boyd, J.K. A272 (1988) 590
Commichau, V., see Böhm, A. A273 (1988) 471
Conde, C.A.N., see Dos Santos, J.M.F. A280 (1989) 288
Conforto, G., see Bari, G. A277 (1989) 11
Connell, J.J., see Davis, A.J. A276 (1989) 347
Connell, K.A., see Karban, O. A274 (1989) 4
Connell, K.A., see Woods, P.J. A276 (1989) 195
Connell, S.H., see Von Wimmersperg, U. A271 (1988) 383
Connolly, R.C. and D.D. Leach, A temperature- and humidity-stabilized beam bunch phase detector A273 (1988) 40
Connor, D., see Abe, F. A271 (1988) 387
Constantine, G., "TIVAL" – A development in spectrum tailoring for intermediate-energy neutron beam production (*Letter to the Editor*) A279 (1989) 675
Conte, R., see UA1 Experiment A279 (1989) 169
Conti, A., see Batignani, G. A277 (1989) 147
Conti, M., see Del Guerra, A. A273 (1988) 500
Contin, A., see Bari, G. A277 (1989) 11
Contreras, M., see Abe, F. A271 (1988) 387
Cooper, J., see Abe, F. A271 (1988) 387
Cooper, M.J., see Alexandropoulos, N.G. A271 (1988) 543
Cooper, W.E., see D0 Calorimeter Group A280 (1989) 36
Coover, K.P., see Napolitano, J.J. A274 (1989) 152
Copley, J.R.D., On the use of multiple-slot multiple disk chopper assemblies to pulse thermal neutron beams A273 (1988) 67
Coppage, D., see Toothacker, W.S. A273 (1988) 97
Coppage, D., see ARGUS Collaboration A275 (1989) 1
Coppi, B., Near-term experiments on fusion burn conditions for neutronless reactions A271 (1988) 2
Coppola, R., S. Omarini, G.Albertini, R. Caciuffo, P. Mariani and F. Rustichelli, Study of α-radiation damage in a steel for fusion technology A280 (1989) 583
Cordelli, M., see Abe, F. A271 (1988) 387
Cordier, M., see Ansorge, R.E. A273 (1988) 826
Corn, P.B., see Islam, M.S. A276 (1989) 647
Coron, N.J., see Bäcklund, Y. A279 (1989) 555
Cossairt, J.D., A.J. Elwyn, W.S. Freeman and S.W. Butala, A study of the transport of high energy muons through a soil shield at the Tevatron A276 (1989) 78
Cossairt, J.D., A.J. Elwyn and W.S. Freeman, A study of the production and transport of muons through shielding at the Tevatron A276 (1989) 86

Costa, G., see Guillaume, G. A277 (1989) 458
Coughlan, J., see Bains, N. A279 (1989) 297
Coulon, J.P., M. Hesse and P. Platz, Medium distance low jitter fiber-optic transmission of timing signals in nuclear instrumentation A274 (1989) 291
Coulter, K.P., A.B. McDonald, G.D. Cates, W. Happer and T.E. Chupp, Measurement of ^{3}He depolarization rates during bombardment with a ^{4}He beam A276 (1989) 29
Coupland, M., see Aoki, S. A274 (1989) 64
Couprie, M.E., see Prazeres, R. A272 (1988) 68
Couprie, M.E., M. Billardon, M. Velghe, C. Bazin, M. Bergher, H. Fang, J.M. Ortega, Y. Petroff and R. Prazeres, Optical properties of multilayer mirrors exposed to synchrotron radiation A272 (1988) 166
Couprie, M.E., C. Bazin and M. Billardon, Optimization of the permanent magnet optical klystron for the SUPER-ACO storage ring free electron laser A278 (1989) 788
Coursey, B.M., L.L. Lucas, A. Grau Malonda and E. Garcia-Toraño, The standardization of plutonium-241 and nickel-63 ..... A279 (1989) 603
Court, A.J., A.J. Dean, M. Yearworth, F. Younis, R.C. Butler, E. Caroli, G. Di Cocco, J.B. Stephen, L. Chiappetti, F. Perotti, G. Villa, P. Ubertini and C. La Padula, A position sensitive detector using a NaI(Tl)/photomultiplier tube combination for the energy range 200 keV to 10 MeV A273 (1988) 706
Cousins, R.D., J. Konigsberg, J. Kubic, P.L. Mélèse, G.W. Hart, W.R. Molzon, G.M. Irwin, D.A. Ouimette, J.L. Ritchie, Q.H. Trang and R.J. Whyley, Fast parallel pipelined readout architecture for a completely flash digitizing system with multilevel trigger A277 (1989) 517
Cover, R.A. and A. Bhowmik, Enhanced performance from high-extraction-efficiency free electron lasers A272 (1988) 117
Cover, R.A., see Bhowmik, A. A272 (1988) 524
Coyle, P., M. Cavalli-Sforza, D. Coyne, M. Schneider, E. Spencer, D. Williams, V. Ashford, T. Bienz, F. Bird, M. Gaillard, G. Hallewell, Y.J. Kwon, D. Leith, D. McShurley, A. Nuttall, G. Oxoby, H. Peterson, B. Ratcliff, R. Reif, P. Rensing, D. Schultz, R. Shaw, S. Shapiro, N. Toge, J. Va'vra, T. Weber, S. Williams, D. Bauer, D. Caldwell, D. Hale, A. Lu, S. Yellin, R. Johnson, B. Meadows and M. Nussbaum, Lorentz angle studies for the SLD endcap Cherenkov ring imaging detector A273 (1988) 858
Coyne, D., see Coyle, P. A273 (1988) 858
Cozzika, G., see Braunschweig, W. A275 (1989) 246
CP-LEAR Collaboration, The, D.A. Tröster, R. Adler, J.R. Fry, T. Geralis, C. Jacobs, E. Machado, P. Pavlopoulos, C. Rehme, D. Sacker, G. Tarrach, P. Tsilimigras and E.J. Watson, Trigger using track search and kinematical analysis for rare decay channels at high rates A279 (1989) 285
CPLEAR Collaboration, The, R. Rickenbach, F. Montanet, G. Backenstoss, P. Carlson, M. Chardalas, T. Franke, K. Grönvik, A. Kerek, P. Kokkas, A. Onofre, C. Touramanis, G. Tranströmer and M. Wildi, The fast strangeness trigger of the CPLEAR experiment A279 (1989) 305
Craddock, M.K., see Abegg, R. A273 (1988) 43
Crane, R., see Benson, S.V. A272 (1988) 22
Crannell, H., see Feldl, E.J. A274 (1989) 439
Crawford, H.J., see Hof, M. A276 (1989) 628
Crawford, H.J., see Engelage, J. A277 (1989) 431
Crawley, G.C., see Angius, S.A. A273 (1988) 283
Creagh, D.C., The use of the form factor formalism in crystallography A280 (1989) 180
Crema, E., see Gomes, P.R.S. A280 (1989) 395
Crennell, D.J., see Angelini, C. A277 (1989) 132
Crevatin, R., see Budinich, M. A273 (1988) 315
Cribier, M., see Aleksan, R. A274 (1989) 203
Criegee, L., see Bürger, J. A279 (1989) 217
Crittenden, J., see Ansorge, R.E. A273 (1988) 826
Crittenden, J., see Alitti, J. A279 (1989) 364
Crittenden, J.A., see Alitti, J. A273 (1988) 135
Crittenden, J.A., The construction of a scintillating-fiber tracking and preshower detector for the UA2 improvement program A277 (1989) 125
Crittenden, R. and J. Krider, Synchrotron radiation detectors for tagging electrons A276 (1989) 643
Croft, S. and D.R. Weaver, An air attenuation correction factor for use with long counters A275 (1989) 172
Croft, S. and D.R. Weaver, The measurement of the gamma-ray field accompanying neutron beams from a particle accelerator by means of a Geiger–Müller counter A276 (1989) 614
Croft, S. and D.R. Weaver, The photon energy dependence of radiophotoluminescent glass dosimeters over the range 17 keV to 6.8 MeV A280 (1989) 123
Croituro, N., see SICAPO Collaboration A279 (1989) 57
Crona, S., see Håkansson, A. A273 (1988) 211
Cross, P., see Woods, S.A. A272 (1988) 924

Crout, N.M.J., J.G. Fletcher and M.C. Scott, Calibration of an NE213 scintillator up to 60 MeV for in situ spectrometry in a neutron cancer therapy facility A277 (1989) 664
Csikai, J., Utilization of intense neutron generators in science and technology A280 (1989) 233
Cub, J., E. Finckh, K. Gebhardt, K. Geissdörfer, R. Lin, J. Strate and H. Klein, The neutron detection efficiency of NE213 detectors measured by means of a ^{252}Cf source A274 (1989) 217
Cudrnak, S.S., see Carpenter, J.M. A278 (1989) 397
Cuevas, J., J. Marco, F. Richard, A. Ruiz and F. Simonetto, Fast simulation of the DELPHI detector A274 (1989) 459
Cui, M.Q., W.X. Xu, L.B. Liu, H.G. Heng, E.S. Tang, Z.Y. Sun, L.R. Qi and D.C. Xian, A fine focusing soft X-ray source for R&D work of the soft X-ray microscopy station at the BEPC Synchrotron Radiation Laboratory A277 (1989) 673
Cumby, R.P., see Awes, T.C. A279 (1989) 479
Cumby, R.P., see Young, G.R. A279 (1989) 503
Cunningham, R.A., see Woods, P.J. A276 (1989) 195
Curatolo, M., see Abe, F. A271 (1988) 387
Curtin, M.S., see Bhowmik, A. A272 (1988) 10
Curtin, M.S., A. Bhowmik, W.A. McMullin, S.V. Benson, J.M.J. Madey, B.A. Richman and L. Vintro, A high quality permanent-magnet wiggler for the Rocketdyne/Stanford infrared free electron laser A272 (1988) 187
Cutler, R., see Penner, S. A272 (1988) 73
Cutolo, A., see Hooper, B.A. A272 (1988) 96
Cutolo, A., L. Carlomusto and S. Solimeno, Limiting factors in an inverse free electron laser A272 (1988) 348
Cutolo, A., see Benson, S.V. A272 (1988) 499
Cutolo, A. and S. Solimeno, Gas lenses for gas loaded free electron lasers A272 (1988) 501
Cutts, D., see D0 Calorimeter Group A280 (1989) 36
Cuzon, J.C., see Charon, Y. A273 (1988) 748

D0 Calorimeter Group, M. Abolins, S.-C. Ahn, S.H. Aronson, R. Astur, J.F. Bartlett, G.C. Blazey, J. Borders, A.D. Bross, J.H. Christenson, W.E. Cooper, D. Cutts, M. Demarteau, P. Draper, S. Durston, D. Edmunds, J. Featherly, T. Ferbel, H.E. Fisk, G.E. Forden, P. Franzini, B.G. Gibbard, J. Gerecht, M.L. Good, H.A. Gordon, P.D. Grannis, J.A. Guida, J.M. Guida, W. Guryn, N.J. Hadley, H. Haggerty, S. Hagopian, T. Heuring, R. Hirosky, J.S. Hoftun, A.S. Ito, M.E. Johnson, A.M. Jonckheere, S. Kahn, D. Kewley, C. Klopfenstein, W. Kononenko, J. Kotcher, J. Kourlas, S. Libonate, J.T. Linnemann, S. Linn, F. Lobkowicz, R.J. Madaras, H.J. Martin, M. Marx, R. McCarthy, K.W. Merritt, P. Mooney, P. Nemethy, D. Nešić, K.K. Ng, D.P. Owen, M. Paterno, B. Pi, H. Piekarz, B.G. Pope, S. Protopopescu, R. Raja, K. Roberts, R.D. Schamberger, J. Sculli, W. Selove, R.P. Smith, A.L. Spadafora, M.L. Stevenson, M. Timko, E. Treadwell, P.M. Tuts, H.D. Wahl, H. Wang, H. Weerts, W.A. Wenzel, A.P. White, S.J. Wimpenny, W.J. Womersley, P. Yamin, S. Youssef and A. Zieminski, Hadron and electron response of uranium/liquid argon calorimeter modules for the D0 detector A280 (1989) 36
D0 Collaboration, S.J. Wimpenny, The hadron and electron response of uranium/liquid argon calorimeter modules for the D-zero detector A279 (1989) 107
Da Penha Pereira Albuquerque, M. and L.V. Ehlin Caldas, New ionization chambers for beta and X-radiation . A280 (1989) 310
Da Silva, A.A., see Coelho, P.R.P. A280 (1989) 270
Da Silva, H.E., see Pereira, E.B. A280 (1989) 503
Da Silveira, E.F., see Davis, K.V. A273 (1988) 203
Da Via, C., see Destruel, P. A276 (1989) 69
Dabiri, A.E., An overview of D–^{3}He fusion reactors A271 (1988) 71
Dabrowski, W. and K. Korbel, The influence of fast neutron irradiation on the noise performance of silicon surface-barrier detectors A271 (1988) 585
Dabrowski, W. and K. Korbel, Effects of deep imperfection levels on the capacitance of semiconductor detectors A276 (1989) 270
Dadykin, V.L., see Bari, G. A277 (1989) 11
Dafni, E., see Lidén, F. A273 (1988) 240
D'Agostini, G., see Gasparini, F. A273 (1988) 485
D'Agostini, G., see ZEUS Calorimeter Group A274 (1989) 134
Dai, Y., see Bari, G. A277 (1989) 11
Dalglish, R.L., see Winchester, T.A. A273 (1988) 77
D'Ali, G., see Bari, G. A277 (1989) 11
Dallin, L.O., see Shin, Y.M. A274 (1989) 227
Dalpiaz, P., see Calabrese, R. A277 (1989) 116
Dalpiaz, P.F., see Calabrese, R. A277 (1989) 116
D'Ambrosio, C., see Destruel, P. A276 (1989) 69
Damerell, C.J.S., R.L. English, A.R. Gillman, A.L. Lintern, D. Phillips, Rong G., C. Sutton, F.J. Wickens, G.

Agnew, P. Clarke, S. Hedges and S.J. Watts, A vertex detector for SLD . . . A275 (1989) 484
Dance, D.R., see Bradley, D.A. . . . A280 (1989) 380
Dang, H.S., see Sunta, C.M. . . . A280 (1989) 449
D'Angelo, S., Performance test of low-noise proportional counters for the GALLEX experiment . . . A279 (1989) 148
Danilov, M., V. Nagovitsin, V. Shibaev, I. Tichomirov, E. Michel and W. Schmidt-Parzefall, A study of drift chamber ageing with propane . . . A274 (1989) 189
Danilov, M., see ARGUS Collaboration . . . A275 (1989) 1
Darden, C.W., see ARGUS Collaboration . . . A275 (1989) 1
Darden, S.E., see Karban, O. . . . A274 (1989) 4
Dardo, M., see Bari, G. . . . A277 (1989) 11
Dardo, M., see Aglietta, M. . . . A277 (1989) 23
Darling, R., see Piqué, A. . . . A279 (1989) 579
Dasgupta, S., T. Mukhopadhyay, A. Roy and C. Mallik, Estimation and display of beam density profiles . . . A276 (1989) 25
Datsko, V.C., see IHEP–IISN–LANL–LAPP Collaboration . . . A276 (1989) 652
Datta, S.K., see Bandyopadhyaya, S.K. . . . A278 (1989) 467
Dattoli, G., see Walsh, J. . . . A272 (1988) 132
Dattoli, G., T. Hermsen, L. Mezi, A. Torre and J.C. Gallardo, A review of the theory of pulse propagation in the long bunch low gain regime . . . A272 (1988) 351
Dattoli, G., see Gallardo, J.C. . . . A272 (1988) 516
Daubie, E., F. Defontaines, F. Grard, J. Kesteman, M. Chevry, O. Pingot, C. Poiret and W. Van Doninck, Performance improvement of streamer drift chambers by the addition of organic vapours to the gas mixture . . . A273 (1988) 553
David, M., see Braunschweig, W. . . . A275 (1989) 246
Davidson, P.L., Linear scintillator PSD for thermal neutrons . . . A273 (1988) 735
Davis, A.J., P.L. Hink, W.R. Binns, J.W. Epstein, J.J. Connell, M.H. Israel, J. Klarmann, V. Vylet, D.H. Kaplan and S. Reucroft, Scintillating optical fiber trajectory detectors . . . A276 (1989) 347
Davis, D.H., see Aoki, S. . . . A274 (1989) 64
Davis, J.L., see McClelland, J.B. . . . A276 (1989) 35
Davis, K.V., E.F. Da Silveira and E.A. Schweikert, Design and performance evaluation of a miniaturized particle desorption mass spectrometer . . . A273 (1988) 203
Davis, R., see Toothacker, W.S. . . . A273 (1988) 97
Davis, R., see ARGUS Collaboration . . . A275 (1989) 1
Dawson, J.W., see Napolitano, J.J. . . . A274 (1989) 152
Day, C., see Abe, F. . . . A271 (1988) 387
De, K., see Bari, G. . . . A277 (1989) 11
De Angelis, A., Three-dimensional parametrization of photon-initiated high energy showers . . . A271 (1988) 455
De Angelis, A., see Checchia, P. . . . A275 (1989) 49
De Angelis, A., see DELPHI Forward ElectroMagnetic Group . . . A279 (1989) 473
De Barros, S., see Gonçalves, O.D. . . . A280 (1989) 375
De Bellefon, A., D. Broszkiewicz, R. Bruère-Dawson, P. Espigat, D. Sotiras and G. Waysand, Conventional readout electronics for superheated superconducting grains – first experimental results . . . A277 (1989) 211
De Boer, W., On the determination of the mass and width of the Z^0 from the total hadronic cross section in e^+e^- annihilation . . . A278 (1989) 687
De Bortoli, L., see Basini, G. . . . A276 (1989) 367
De Carvalho, J.C.L., see De Fraga, F.A.F. . . . A272 (1988) 921
De Carvalho, J.C.L., see De Fraga, F.A.F. . . . A279 (1989) 339
De Fraga, F.A.F., R. Ferreira Marques, J.C.L. De Carvalho and A.J.P.L. Policarpo, Time development of the asymmetry in the charges induced by SQS (*Letter to the Editor*) . . . A272 (1988) 921
De Fraga, F.A.F., R. Ferreira Marques, J.C.L. De Carvalho and A.J.P.L. Policarpo, Study of the time development of SQS pulses by the induced charge method . . . A279 (1989) 339
De Giorgi, M., see Bacci, C. . . . A273 (1988) 321
De Giorgi, M., see Gasparini, F. . . . A273 (1988) 485
De Giorgi, M., see UA1 Experiment . . . A279 (1989) 169
De Groot, F.M.F., see Kortboyer, S.W. . . . A275 (1989) 435
De Koning, N., see Bloch, D. . . . A273 (1988) 847
De Korte, P.A.J., see Simons, D.G. . . . A273 (1988) 512
De Korte, P.A.J., see Simons, D.G. . . . A277 (1989) 642
De la Vaissiere, Ch., see Dijkstra, H. . . . A277 (1989) 160
De Lesquen, A., see Braunschweig, W. . . . A275 (1989) 246
De Lima, J.F., E.M. Yoshimura and E. Okuno, Thermoluminescent parameters from a Brazilian calcite glow curve . . . A280 (1989) 436
De Martinis, C., see Antipov, Yu.M. . . . A274 (1989) 452

De Moraes, M.A.P.V. and M.T.F. Cesar, Photofission cross sections of ^{233}U and ^{239}Pu near threshold induced by gamma rays from thermal neutron capture . . . A277 (1989) 467
De Ninno, G., see Albrizio, R. . . . A271 (1988) 449
De Ninno, G., see Baldini-Celio, R. . . . A280 (1989) 45
De Notaristefani, F., see Bakken, J.A. . . . A275 (1989) 81
De Notaristefani, F., see Bakken, J.A. . . . A280 (1989) 25
De Oliveira, K.A., see Vannucci, A. . . . A280 (1989) 593
De Palma, M., see Albrizio, R. . . . A271 (1988) 449
De Palma, M., Hadronic energy measurement in the ALEPH calorimeter prototype . . . A277 (1989) 68
De Pasquale, S., see Bari, G. . . . A277 (1989) 11
De Pedis, D., see De Winter, K. . . . A277 (1989) 83
De Pedis, D., see De Winter, K. . . . A277 (1989) 170
De Pedis, D., see CHARM II Collaboration . . . A278 (1989) 670
De Saint Simon, M., see Coc, A. . . . A271 (1988) 512
De Salvo Souza, L., see Bonifacio, R. . . . A272 (1988) 551
De Salvo Souza, L., see Bonifacio, R. . . . A276 (1989) 394
De Sangro, R., see Benvenuti, A.C. . . . A276 (1989) 94
De Simone, P., see Benvenuti, A.C. . . . A276 (1989) 94
De Vincenzi, M., see Aoki, S. . . . A274 (1989) 64
De Vincenzi, M., see Angelini, C. . . . A277 (1989) 132
De Vries, J., see Britton, D.T. . . . A273 (1988) 343
De Vries, J., A. Zecca, R.S. Brusa, R.G. Grisenti and S. Oss, Fast timing with Hamamatsu R2083Q photomultipliers (*Letter to the Editor*) . . . A275 (1989) 194
De Winter, K., D. Geiregat, P. Vilain, G. Wilquet, F. Bergsma, U. Binder, H. Burkard, A. Capone, A. Ereditato, W. Flegel, H. Grote, C. Nieuwenhuis, H. Øverås, V. Palladino, J. Panman, G. Piredda, K. Winter, G. Zacek, V. Zacek, T. Bauche, R. Beyer, V. Blobel, F.W. Büsser, C. Foos, L. Gerland, F. Niebergall, P. Stähelin, A. Tadsen, T. Delbar, B. Emsens, D. Favart, G. Grégoire, E. Knoops, T. Mouthuy, P. Gorbunov, E. Grigoriev, V. Khovansky, A. Maslennikov, A. Rosanov, W. Lippich, A. Nathaniel, A. Staude, M. Caria, E. Gorini, F. Grancagnolo, R. Iasevoli, P. Strolin, D. De Pedis, E. Di Capua, U. Dore, P.F. Loverre, A. Rambaldi-Frenkel, R. Santacesaria and D. Zanello, Experimental results obtained from a low-Z, fine-grained electromagnetic calorimeter . . . A277 (1989) 83
De Winter, K., D. Geiregat, P. Vilain, G. Wilquet, F. Bergsma, U. Binder, H. Burkard, A. Capone, A. Ereditato, W. Flegel, H. Grote, C. Nieuwenhuis, H. Øverås, V. Palladino, J. Panman, G. Piredda, K. Winter, G. Zacek, V. Zacek, T. Bauche, R. Beyer, V. Blobel, F.W. Büsser, C. Foos, L. Gerland, F. Niebergall, P. Stähelin, A. Tadsen, T. Delbar, B. Emsens, D. Favart, G. Grégoire, E. Knoops, T. Mouthuy, P. Gorbunov, E. Grigoriev, V. Khovansky, A. Maslennikov, A. Rosanov, W. Lippich, A. Nathaniel, A. Staude, M. Caria, E. Gorini, F. Grancagnolo, R. Iasevoli, P. Strolin, D. De Pedis, E. Di Capua, U. Dore, P.F. Loverre, A. Rambaldi-Frenkel, R. Santacesaria and D. Zanello, An electron–hadron separator for digital sampling calorimeters . . . A277 (1989) 170
De Winter, K., see CHARM II Collaboration . . . A278 (1989) 670
Deacon, D.A.G., see La Sala, J.E. . . . A272 (1988) 141
Deacon, D.A.G., see Xie, M. . . . A272 (1988) 528
Dean, A.J., see Court, A.J. . . . A273 (1988) 706
Dean, A.J., J. Fraser-Mitchell, F. Lei and D. Ramsden, Imaging hard X-rays using a multipitch phoswich RMC A273 (1988) 711
Debarbaro, L., see Engels Jr, E. . . . A279 (1989) 272
Debbe, R., see Vincent, P. . . . A272 (1988) 660
Debenham, P., see Penner, S. . . . A272 (1988) 73
Debertin, K. and Ren Jianping, Measurement of the activity of radioactive samples in Marinelli beakers . . . A278 (1989) 541
Debrecht, D.B., see Gagliardi, C.A. . . . A273 (1988) 117
Debrecht, D.C., see Gagliardi, C.A. . . . A273 (1988) 117
Debrunner, H., E.O. Flückiger and P. Stein, On the sensitivity of neutron monitors to solar neutrons . . . A278 (1989) 573
Debusschere, I., see Vanstraelen, G. . . . A273 (1988) 625
Debusschere, I., E. Bronckaers, C. Claeys and G. Declerck, Electron detection by means of silicon solid state imagers . . . A273 (1988) 636
Debusschere, I., see Vanstraelen, G. . . . A275 (1989) 574
Declerck, G., see Vanstraelen, G. . . . A273 (1988) 625
Declerck, G., see Debusschere, I. . . . A273 (1988) 636
Declerck, G., Trends in VLSI processing . . . A275 (1989) 475
Declerck, G., see Vanstraelen, G. . . . A275 (1989) 574
Decowski, P., see Van Melle, J.C.C. . . . A277 (1989) 584
Defelice, M., see Bari, G. . . . A277 (1989) 11
Defoix, Ch., see Begalli, M. . . . A276 (1989) 105

Defontaines, F., see Daubie, E. . . . A273 (1988) 553
Degli Esposti, L., see Artusi, G. . . . A279 (1989) 523
Degré, A., see Chollet, F. . . . A277 (1989) 497
Deiters, K., see Böhm, A. . . . A273 (1988) 471
Deitinghof, H., see Leipe, P. . . . A278 (1989) 213
Deitinghoff, H., see Schempp, A. . . . A278 (1989) 169
Deitinghoff, H., see Junior, P. . . . A278 (1989) 233
Del Guerra, A., M. Conti, G. Gorini, P. Maiano, C. Rizzo and V. Perez-Mendez, The macrochannel plate: a suitable detector for low energy γ-rays and high energy electromagnetic showers . . . A273 (1988) 500
Del Papa, C., see Bari, G. . . . A277 (1989) 11
Del Peso, J. and E. Ros, On the energy resolution of electromagnetic sampling calorimeters . . . A276 (1989) 456
Del Peso, J., see Buttler, W. . . . A277 (1989) 217
Del Zoppo, A., see Alba, R. . . . A271 (1988) 553
Delbar, T., see De Winter, K. . . . A277 (1989) 83
Delbar, T., see De Winter, K. . . . A277 (1989) 170
Delbar, T., see CHARM II Collaboration . . . A278 (1989) 670
Delcourt, B., see Braunschweig, W. . . . A275 (1989) 246
Delfabbro, R., see Abe, F. . . . A271 (1988) 387
Delheij, P.P.J., see Wait, G.D. . . . A274 (1989) 515
Della-Negra, S., see Deutsch, C. . . . A278 (1989) 38
Dell'Orso, M., see Abe, F. . . . A271 (1988) 387
Dell'Orso, M. and L. Ristori, VLSI structures for track finding . . . A278 (1989) 436
Dell'Orso, R., see Benvenuti, A.C. . . . A276 (1989) 94
Dell'Orso, R., see Beconcini, F. . . . A277 (1989) 222
DELPHI Forward ElectroMagnetic Group, The, F. Bianchi, E. Castelli, P. Checchia, R. Cirio, M.P. Clara, A. De Angelis, A. Ferrer, G. Galeazzi, D. Gamba, U. Gasparini, M. Innocente, L. Lanceri, I. Lippi, A. Lopez, J. Marco, C. Martinez, M. Mazzucato, E. Menichetti, M. Pegoraro, C. Pinori, P. Poropat, R. Ragazzon, G. Rinaudo, A. Romero, P. Ronchese, A. Ruiz, F. Scuri, A. Sebastia, M. Sessa, F. Simonetto, J. Velasco, L. Ventura, F. Waldner and G. Zumerle, Transverse profile of electron showers in a lead-glass calorimeter A279 (1989) 473
Dell'Uomo, S., see Aoki, S. . . . A274 (1989) 64
Delsing, P., see Bäcklund, Y. . . . A279 (1989) 555
Demarteau, M., see D0 Calorimeter Group . . . A280 (1989) 36
Demeyer, A., see Guinet, D. . . . A278 (1989) 614
Demortier, L., see Abe, F. . . . A271 (1988) 387
Demos, P., see Beck, D. . . . A277 (1989) 323
Denes, P., see Bakken, J.A. . . . A275 (1989) 81
Denes, P., see Bakken, J.A. . . . A280 (1989) 25
Deninno, M.M., see Artusi, G. . . . A279 (1989) 523
Denis, R.St., see Abe, F. . . . A271 (1988) 387
Denisenko, K.G., see Filatova, N.A. . . . A272 (1988) 707
Denisov, D., see Brown, C. . . . A279 (1989) 331
Denisov, D.S., see Antipov, Yu.M. . . . A274 (1989) 452
Denisov, S., see Brown, C. . . . A279 (1989) 331
Denni, U., see Battistoni, G. . . . A276 (1989) 140
D'Erasmo, G., see Pantaleo, A. . . . A276 (1989) 191
Desalvo, R., F.G. Hartjes, A.M. Henriques, B. Ong, H.P. Paar, C. Scheel, P. Sonderegger, R. Wigmans and A. Zichichi, A novel way of electron identification in calorimeters . . . A279 (1989) 467
Desanlis, T., see Aleksan, R. . . . A273 (1988) 303
Desoi, W., see Engels Jr, E. . . . A279 (1989) 272
Destler, W.W., see Granatstein, V.L. . . . A272 (1988) 110
Destruel, P., M. Taufer, C. D'Ambrosio, C. Da Via, J.P. Fabre, J. Kirkby and H. Leutz, A new plastic scintillator with large Stokes shift . . . A276 (1989) 69
Detœuf, J.F., Y. Ducros, F. Feinstein, J.R. Hubbard, Ph. Mangeot, B. Masoulié, J. Teiger and A. Zylberstejn, Status of the transition radiation detector for the DØ experiment . . . A279 (1989) 310
D'Ettorre Piazzoli, B., see Albrizio, R. . . . A271 (1988) 449
D'Ettorre-Piazzoli, B., see Aglietta, M. . . . A277 (1989) 23
D'Ettorre Piazzoli, B., see Baldini-Celio, R. . . . A280 (1989) 45
Deušić, S., see Salatić, D. . . . A271 (1988) 301
Deutsch, C., G. Maynard, R. Bimbot, D. Gardes, S. Della-Negra, M. Dumail, B. Kubica, A. Richard, M.F. Rivet, A. Servajean, C. Fleurier, A. Sanba, D.H.H. Hoffmann, K. Weyrich and H. Wahl, Ion beam–plasma interaction: a standard model approach . . . A278 (1989) 38

Deutsch, C., see Weyrich, K. ... A278 (1989) 52
Deutsch, M., see Bari, G. ... A277 (1989) 11
Devlin, T., see Abe, F. ... A271 (1988) 387
Dewald, A., see Koch, H.R. ... A271 (1988) 375
Dewolf, R.S., see Ansorge, R.E. ... A273 (1988) 826
Dewolf, R.S., see Alitti, J. ... A279 (1989) 364
Dewulf, J.P., see CHARM II Collaboration ... A278 (1989) 670
Dhina, M., see Böhm, A. ... A273 (1988) 471
Di Capua, E., see De Winter, K. ... A277 (1989) 83
Di Capua, E., see De Winter, K. ... A277 (1989) 170
Di Capua, E., see CHARM II Collaboration ... A278 (1989) 670
Di Ciaccio, A., see Goodman, M.S. ... A278 (1989) 441
Di Ciaccio, A., see UA1 Collaboration ... A279 (1989) 83
Di Cocco, G., see Court, A.J. ... A273 (1988) 706
Di Liberto, S., see Aoki, S. ... A274 (1989) 64
Di Sciascio, G., see Bari, G. ... A277 (1989) 11
Dias, M.S., see Koskinas, M.F. ... A280 (1989) 327
Dias, T.H.V.T., see Dos Santos, J.M.F. ... A280 (1989) 288
Dias Da Cunha, K.M.A., S.M.M. Carvalho, C.V. Barros Leite, G.B. Baptista and A.S. Paschoa, Size distribution of airborne particulates in monazite dust ... A280 (1989) 492
DiBernardo, P., see Kessler, R.S. ... A275 (1989) 285
Dibitonto, D., see Abe, F. ... A271 (1988) 387
DiBitonto, D., P.M. Van Peteghem, R.L. Geiger, P.M. McIntyre, Y. Pang, J.M. Thane, J.T. White and M. Atac, Advanced forward calorimetry for the SSC and TeVatron collider ... A279 (1989) 100
Diebold, R., see Abe, F. ... A271 (1988) 387
Diemoz, M., see Bakken, J.A. ... A275 (1989) 81
Diemoz, M., see Borgia, B. ... A278 (1989) 699
Diemoz, M., see Bakken, J.A. ... A280 (1989) 25
Dierickx, B., J. Vermeiren and O. Frenzl, The Isophot CREA25 far infrared Si:P matrix ... A275 (1989) 527
Dierickx, B., XYW detector: a smart two-dimensional particle sensor ... A275 (1989) 542
Dierks, K., see ZEUS Calorimeter Group ... A274 (1989) 134
Dieterle, B.D., see Alston-Garnjost, M. ... A271 (1988) 475
Dietl, H., see Buttler, W. ... A273 (1988) 778
Dietze, G., see Brede, H.J. ... A274 (1989) 332
Diez-Hedo, F., see UA1 Collaboration ... A279 (1989) 114
Dijkman, W.H., A system for removing both oxygen and nitrogen from a rare gas–hydrocarbon mixture ... A274 (1989) 171
Dijkstra, H., see Burns, M. ... A277 (1989) 154
Dijkstra, H., R. Horisberger, B.D. Hyams, G. Maehlum, A. Peisert, P. Weilhammer, A. Zalewska, W. Krupinski, H. Palka, M. Turala, T. Palenius, E. Sundell, T. Tuuva, S. Johansson, M. Caccia, C. Meroni, N. Redaelli, A. Stocchi, R. Turchetta, C. Troncon, G. Vegni, M. Mazzucato, F. Simonetto, G. Zumerle, Ch. De la Vaissiere, S. Palma Lopes, P. Allport, G. Kalmus, M. Tyndel and W. Mitaroff, Physics aspects of the DELPHI vertex detector ... A277 (1989) 160
Dimitrović, I., see Böhm, A. ... A273 (1988) 471
Din, L., see Bari, G. ... A277 (1989) 11
Ding, A., see Rettig, W. ... A277 (1989) 677
Ding, W., see Du, X.W. ... A272 (1988) 29
Ding, W., Electron orbits in phase space and design considerations of variable parameter wigglers ... A272 (1988) 426
Dinter, H., K. Tesch and C. Yamaguchi, Shielding of proton accelerators: a comparison between the Moyer model and Monte Carlo calculations ... A276 (1989) 1
Diodati, P., see Bari, G. ... A277 (1989) 11
Dionisi, C., see Bakken, J.A. ... A275 (1989) 81
Dionisi, C., see Bakken, J.A. ... A280 (1989) 25
Dionisio, J.S., see Lagrange, J.M. ... A271 (1988) 527
Dionisio, P.H., see Stedile, F.C. ... A280 (1989) 552
Dionisio, P.H., see Vasconcellos, M.A.Z. ... A280 (1989) 557
Ditta, J., see Boniface, J. ... A279 (1989) 376
Dittus, F., see Abe, F. ... A271 (1988) 387
Divirgilio, A., see Abe, F. ... A271 (1988) 387
Dix, W.-R., see Engelke, K. ... A274 (1989) 380
Djalali, C., see Angius, S.A. ... A273 (1988) 283
Do Carmo Lopes, M. and J. Molina Avila, Multiple-scattering resonance self-shielding factors in foils ... A280 (1989) 304

Dobrigkeit-Chincellato, C., see Bari, G. A277 (1989) 11
Dobrinić, J., N. Orlić, S. Kaučić, D. Kekez, A. Ljubičić and B.A. Logan, Angular correlation of double internal bremsstrahlung in the electron capture decay of ^{55}Fe A280 (1989) 384
Dodd, J.W., see Cai, S.Y. A272 (1988) 136
Dodson, G., see Beck, D. A277 (1989) 323
Dodson, G.W., see Cates, G.D. A278 (1989) 293
Doe, P.J., see Biller, S.D. A276 (1989) 144
Doi, I., see Aramaki, E.A. A280 (1989) 597
Doi, Y., T. Haruyama, H. Hirabayashi, S. Ishimoto, A. Maki, T. Mito, T. Omori, S. Terada and K. Tsuchiya, A 3 T superconducting magnet for the AMY detector A274 (1989) 95
Doke, T., see Lopes, M.I. A271 (1988) 464
Doke, T., see Bourotte, J. A274 (1989) 129
Doke, T., see Yanagimachi, T. A275 (1989) 307
Doke, T., see Sano, T. A275 (1989) 346
Doke, T., see Masuda, K. A279 (1989) 560
Dolbeau, J., see Begalli, M. A276 (1989) 105
Dölling, R., see Weis, T. A278 (1989) 224
Dombeck, T., A. Finch and D.L. Grisham, Details of a water target used in a high-current application for a neutrino-physics experiment and the direct measurement of the incident proton beam by the induced change in the water conductivity A272 (1988) 650
Dominik, W., see Solomey, N. A271 (1988) 423
Dominik, W., see Breskin, A. A273 (1988) 798
Dominik, W., see Charpak, G. A274 (1989) 275
Dominik, W., see Peskov, V. A277 (1989) 547
Dominik, W., N. Zaganidis, P. Astier, G. Charpak, J.C. Santiard, F. Sauli, E. Tribollet, A. Geissbühler and D. Townsend, A gaseous detector for high-accuracy autoradiography of radioactive compounds with optical readout of avalanche positions A278 (1989) 779
Dominik, W., see Giomataris, Y. A279 (1989) 322
Domogala, G., see Matulewicz, T. A274 (1989) 501
Donahue, J.B., see Durkin, L.S. A277 (1989) 386
Doncel, P., see UA1 Collaboration A279 (1989) 114
Dong, Qi, Y. Kuang and R.H. Pratt, Photoionization of atoms and ions A280 (1989) 189
Dong, Y., see Bari, G. A277 (1989) 11
Donker, J.P., see Buchner, U. A272 (1988) 695
Donnelly, W., see Aoki, S. A274 (1989) 64
Donskov, S.V., see IHEP–IISN–LANL–LAPP Collaboration A276 (1989) 652
Dore, U., see De Winter, K. A277 (1989) 83
Dore, U., see De Winter, K. A277 (1989) 170
Dore, U., see CHARM II Collaboration A278 (1989) 670
Dorfan, D.E., A fast bipolar microstrip readout chip A279 (1989) 186
Dornan, P.J., see Barber, G.J. A279 (1989) 212
Dörschel, B., see Streubel, G. A274 (1989) 194
Dörschel, B., see Seifert, H. A275 (1989) 411
Dorsel, D., see Bosseler, K. A277 (1989) 121
Dos Santos, J.M.F., T.H.V.T. Dias, S.D.A. Reyes Cortes and C.A.N. Conde, Novel techniques for designing gas proportional scintillation counters for X-ray spectrometry A280 (1989) 288
Dosselli, U., see Gasparini, F. A273 (1988) 485
Dougherty, B.L., see Alston-Garnjost, M. A271 (1988) 475
Dow, K., see Beck, D. A277 (1989) 323
Dow, K.A., see Cates, G.D. A278 (1989) 293
Downing, R., see Abe, F. A271 (1988) 387
Dracos, M., see Bloch, D. A273 (1988) 847
Drago, E., see Adeva, B. A277 (1989) 187
Drain, D., see Guinet, D. A278 (1989) 614
Drake, G., see Abe, F. A271 (1988) 387
Draper, P., see D0 Calorimeter Group A280 (1989) 36
Drees, A., P. Fischer, P. Glässel, G. Lamade, H. Ries, E. Schmoetten, H.J. Specht, A. Breskin, R. Chechik, Z. Fraenkel and I. Tserruya, A ring-imaging Cherenkov counter with a low-pressure two-step UV-detector A273 (1988) 793
Drescher, A., see ARGUS Collaboration A275 (1989) 1
Dresel, Th., Th.W. Elze and R. Peckhaus, Improved transmission calculations for mini-orange magnetic spectrometers A275 (1989) 301

Dreucci, M., see Albrizio, R. A271 (1988) 449
Drews, G., see ZEUS Calorimeter Group A274 (1989) 134
Drews, G., see ARGUS Collaboration A275 (1989) 1
Drndarevic, V., P. Ryge and T. Gozani, Digital signal processing for high rate gamma-ray spectroscopy A277 (1989) 532
Drobot, A., see Mark, J.W.-K. A278 (1989) 186
Droege, T., see Abe, F. A271 (1988) 387
Droege, T.F., M.F. Shea, R.W. Goodwin, M.E. Johnson, A.A. Jones, K. Roberts and S.J. Wimpenny, The computer controlled VME high voltage system for the D-Zero detector A279 (1989) 359
Drummond, J.R., see Ford, T.D. A274 (1989) 253
Du, X.W., W. Ding, Y. Su, C. Chu and E.S. Fu, The present status of FEL research work in China A272 (1988) 29
Du Guangtian, New methods of enhancing ion beam intensities from two types of sputter negative ion sources . A274 (1989) 415
Duane, A., see Angelini, C. A277 (1989) 132
Dubbelman, P., see Urbanus, W.H. A278 (1989) 339
Dubbers, D., P. El-Muzeini, M. Kessler and J. Last, Prototype of a zero-field neutron spin-echo spectrometer .. A275 (1989) 294
Duboc, J., see Braunschweig, W. A275 (1989) 246
Ducourtieux, M., see ISOCELE Collaboration A274 (1989) 485
Ducros, Y., F. Feinstein, J.R. Hubbard, Ph. Mangeot, B. Mansoulié, J. Teiger and A. Zylberstejn, Monte Carlo simulation of the performance of the D0 transition radiation detector A277 (1989) 401
Ducros, Y., see Detœuf, J.F. A279 (1989) 310
Duff, B.G., see Aoki, S. A274 (1989) 64
Dugeay, S., see Barber, G.J. A279 (1989) 212
Duhm, H.H., I. Fedder and K. Schiffmann, The response of a single gap tetramethylsilane ionization chamber to 8–23 MeV protons at different incident angles and to electrons of a ^{207}Bi source A277 (1989) 565
Duijn, J.H., C.W.E. Van Eijk, R.W. Hollander and G.W. Sloof, Reduction of the electronics of a 1D position sensitive detector A273 (1988) 541
Duinker, P., G. Faber, H. Van der Graaf, H. Groenstege, D. Harting, F. Hartjes, J. Koopstra, X. Leytens, G. Massaro, H. Onvlee, Y. Peng, H. Postema, P. Rewiersma and T. Vorenkamp, Some methods and tools for testing and optimizing proportional wire chambers A273 (1988) 814
Duinker, P., see Adeva, B. A277 (1989) 187
Dulinski, W., see Bloch, D. A273 (1988) 847
Düllmann, D., see Klär, H. A275 (1989) 197
Dulman, H.D., see Fisher, A.S. A272 (1988) 89
Dumail, M., see Deutsch, C. A278 (1989) 38
Dunphy, P.P., M.L. McConnell, A. Owens, E.L. Chupp, D.J. Forrest and J. Googins, A balloon-borne coded aperture telescope for low-energy gamma-ray astronomy A274 (1989) 362
Dunwoodie, W.M., see Shapiro, S.L. A275 (1989) 580
Dupont, J., see Ansorge, R.E. A273 (1988) 826
Dupont, J., see Alitti, J. A279 (1989) 364
Dupraz, J., see Ansorge, R.E. A273 (1988) 826
Duran, I., see Adeva, B. A277 (1989) 187
Durante, E., see Sannino, M. A273 (1988) 494
Durkin, L.S., J.S. Fitch, R.W. Harper, J.W. Heimaster, D.R. Larsen, T.Y. Ling, J.W. Mitchell, T.A. Romanowski, C.J. Rush, V.K. Sehgal, E.S. Smith, M. Timko, B.K. Fujikawa, R. McKeown, W.C. Choi, A. Fazely, R.L. Imlay, W.J. Metcalf, W. Marterer, J.B. Donahue and V. Sandberg, A fine-grain modular detector for low-energy particles A277 (1989) 386
Durner, P., T. Von Egidy and F.J. Hartmann, Neutron-capture gamma rays below 40 keV A278 (1989) 484
Durston, S., see D0 Calorimeter Group A280 (1989) 36
Dutt, S.K., A. Friedman, A. Gover and C. Pellegrini, Three dimensional simulation of high harmonic transverse optical klystron A272 (1988) 564
Duvall, K.C., S.M. Seltzer, C.G. Soares and B.W. Rust, Dosimetry of a nearly monoenergetic 6 to 7 MeV photon source by NaI(Tl) scintillation spectrometry A272 (1988) 866
Dwuraźny, A., W. Krupinski, G. Barbagli, P.G. Pelfer, D.G. Cassel, R. Klanner, U. Kötz, W. Koch, J. Tengeler and N. Wainer, Experimental study of electron–hadron separation in calorimeters using silicon diodes A277 (1989) 176
Dzengeleski, J., see Beck, D. A277 (1989) 323

E-632 Collaboration, G.G. Harigel, Holography in the 15-foot bubble chamber A279 (1989) 249
Eades, J. and L.M. Simons, Deceleration in an anticyclotron as a means of producing very low energy antiprotons A278 (1989) 368
Eartly, D., see Brown, C. A279 (1989) 331
Easo, S., see Engels Jr, E. A279 (1989) 272
Eaton, M., see Abe, F. A271 (1988) 387

Ebbing, H., see Wüstenbecker, S. ... A279 (1989) 448
Ebel, F., W. Faust, C. Hahn, S. Langer, M. Rückert, H. Schneider, A. Singe and I. Tobehn, The slow positron source at the Giessen 65 MeV linac ... A272 (1988) 626
Ebel, F., W. Faust, H. Schneider and I. Tobehn, First results for positron accumulation at the Giessen linac ... A274 (1989) 1
Ebisawa, T., see Kawai, T. ... A276 (1989) 408
Edmends, J.S., D.J. Miller and F. Barlow, Investigation of prototype gas-filled photomultipliers ... A273 (1988) 145
Edmunds, D., see D0 Calorimeter Group ... A280 (1989) 36
Edwards, G.S. and N.H. Tolk, Vanderbilt University FEL Center for biomedical and materials research ... A272 (1988) 37
Edwards, K.W., see ARGUS Collaboration ... A275 (1989) 1
Eerola, P., M. Ellilä, P. Laurikainen, R. Orava and M. Voutilainen, Fast triggering with a plastic streamer tube calorimeter ... A273 (1988) 841
Egelhof, P., see Jaskóła, M. ... A273 (1988) 441
Egli, S., see Robmann, P. ... A277 (1989) 368
Ehlin Caldas, d L.V., see Da Penha Pereira Albuquerque, M. ... A280 (1989) 310
Eichler, J., see Gonçalves, O.D. ... A280 (1989) 375
Eichler, R., see Robmann, P. ... A277 (1989) 368
Eichon, A.D., see Wightman, J.A. ... A275 (1989) 281
Eichon, A.D., see Kessler, R.S. ... A275 (1989) 285
Eilertsen, K., see Olsen, A. ... A273 (1988) 565
Einsweiler, K., see Ansorge, R.E. ... A273 (1988) 826
Einsweiler, K., see Alitti, J. ... A279 (1989) 364
Eisele, R., see Adler, J. ... A276 (1989) 42
Eisenbud, M. and A.S. Paschoa, Environmental radioactivity ... A280 (1989) 470
Eisenhandler, E., see Bains, N. ... A279 (1989) 297
Ekelöf, T., see Baillon, P. ... A277 (1989) 338
Eklund, A., see Albrecht, R. ... A276 (1989) 131
El Goresy, A., see Pavićević, M.K. ... A271 (1988) 297
El-Muzeini, P., see Dubbers, D. ... A275 (1989) 294
Elcombe, P.A., see Toothacker, W.S. ... A273 (1988) 97
Elcombe, P.A., see Carter, J.R. ... A278 (1989) 725
Elcombe, P.A., see Roney, J.M. ... A279 (1989) 236
Eldridge, O., see Scharer, J. ... A272 (1988) 289
Elevant, T., Performance of a liquid scintillator at high count-rates for fusion applications ... A278 (1989) 774
Elias, J.E., see Abe, F. ... A271 (1988) 387
Elias, L., see Ramian, G. ... A272 (1988) 81
Elias, L.R., see Amir, A. ... A272 (1988) 174
Elias, L.R., see Kimel, I. ... A272 (1988) 368
Elkonin, B.V., see Ben-Zvi, I. ... A276 (1989) 53
Ellilä, M., see Eerola, P. ... A273 (1988) 841
Ellilä, M., Charge diffusion in the capacitive readout of resistive cathodes ... A277 (1989) 507
Elliott, C.J., see Goldstein, J.C. ... A272 (1988) 177
Elliott, C.J., see Schmitt, M.J. ... A272 (1988) 586
Elliott, S.R., A.A. Hahn and M.K. Moe, A time projection chamber for detection of double beta decay ... A273 (1988) 226
Ellis, N., see Bains, N. ... A279 (1989) 297
Ellison, J., see Joyce, D. ... A279 (1989) 189
Elmamouni, H., see Bakken, J.A. ... A275 (1989) 81
Elmamouni, H., see Bakken, J.A. ... A280 (1989) 25
Elwyn, A.J., see Cossairt, J.D. ... A276 (1989) 78
Elwyn, A.J., see Cossairt, J.D. ... A276 (1989) 86
Ely, R., see Abe, F. ... A271 (1988) 387
Elze, Th.W., see Dresel, Th. ... A275 (1989) 301
Emery, M. and R.A. Miller, Model calculation and simulation of nonobserved negative mass instability in migma ... A271 (1988) 134
Emig, H., see Spädtke, P. ... A278 (1989) 643
Emling, H., see Matulewicz, T. ... A274 (1989) 501
Emsens, B., see De Winter, K. ... A277 (1989) 83
Emsens, B., see De Winter, K. ... A277 (1989) 170
Endo, I., see Amako, K. ... A272 (1988) 687
Endo, I., S. Kasai, M. Harada, K. Niki, Y. Sumi, M. Tobiyama, M. Mutou, H. Tsujikawa, K. Watanabe, K. Yoshida and K. Baba, Detection of recoil electrons in triplet photoproduction (*Letter to the Editor*) ... A280 (1989) 144

Engelage, J., M.E. Baumgartner, E. Beleal, B.L. Berman, F. Bieser, F.P. Brady, M. Bronson, J.B. Carroll, H.J. Crawford, I. Flores, D.E. Greiner, L. Greiner, O. Hashimoto, G. Igo, S. Kadota, P.N. Kirk, P.J. Lindstrom, C. McParland, S. Nagamiya, D.L. Olson, J. Porter, J.L. Romero, C.L. Ruiz, T.J.M. Symons, I. Tanihata, R. Wada, M.L. Webb, J. Yamada and H. Yee, Design of the Bevalac heavy ion spectrometer system and its performance in studying ^{12}C fragmentation A277 (1989) 431
Engelen, J., see ZEUS Calorimeter Group A274 (1989) 134
Engelke, K., M. Lohmann, W.-R. Dix and W. Graeff, A system for dual energy microtomography of bones A274 (1989) 380
Engelmann, R., see Clark, A.R. A279 (1989) 243
Engels Jr, E., S. Mani, D. Orris, P.F. Shepard, P.D. Weerasundara, B.C. Choudhary, U. Joshi, V. Kapoor, R. Shivpuri, W. Baker, D. Berg, D. Carey, C. Johnstone, C. Nelson, C. Bromberg, D. Brown, J. Huston, R. Miller, A. Nguyen, R. Benson, P. Lukens, K. Ruddick, G. Alverson, W. Faissler, D. Garelick, M. Glaubman, I. Kourbanis, C. Lirakis, E. Pothier, A. Sinanidis, G.-H. Wu, T. Yasuda, C. Yosef, S. Easo, K. Hartman, B.Y. Oh, W. Toothacker, J. Whitmore, G. Ballocchi, L. Debarbaro, W. Desoi, G. Fanourakis, T. Ferbel, G. Ginther, P. Gutierrez, A. Lanaro, F. Lobkowicz, J. Mansour, G. Pedeville, E. Prebys, D. Skow, P. Slattery, N. Varelas and M. Zielinski, Performance characteristics and radiation damage results from the Fermilab E706 silicon microstrip detector system A279 (1989) 272
Enghardt, W., see Manfrass, P. A273 (1988) 904
England, J.B.A., G.M. Field and T.R. Ophel, Z-identification of charged particles by signal risetime in silicon surface barrier detectors A280 (1989) 291
English, R.L., see Damerell, C.J.S. A275 (1989) 484
Engster, C., see Ansorge, R.E. A273 (1988) 826
Engster, C., see Alitti, J. A279 (1989) 364
Engstler, S., see Neldner, K. A274 (1989) 419
Enorini, M., see Bari, G. A277 (1989) 11
Epstein, J.W., see Davis, A.J. A276 (1989) 347
Epstein, V., see Artamonov, A. A279 (1989) 531
Equer, B. and A. Karar, Effect of primary ionization in amorphous silicon detectors A271 (1988) 574
Equer, B. and A. Karar, Amorphous semiconductors for particle detection: physical and technical limits and possibilities A275 (1989) 558
Ereditato, A., see De Winter, K. A277 (1989) 83
Ereditato, A., see De Winter, K. A277 (1989) 170
Ereditato, A., see CHARM II Collaboration A278 (1989) 670
Erlandsson, B., see Bjurman, B. A274 (1989) 324
Erné, F.C., see Adeva, B. A277 (1989) 187
Eroshin, O.V., see Antipov, Yu.M. A274 (1989) 452
Errede, S., see Abe, F. A271 (1988) 387
Espigat, P., see De Bellefon, A. A277 (1989) 211
Esposito, B., see Abe, F. A271 (1988) 387
Esten, M.J., see Aoki, S. A274 (1989) 64
Evangelakis, G., see Alexandropoulos, N.G. A271 (1988) 543
Evangelides, S.G., see Throop, A.L. A272 (1988) 15
Evans, H., see UA1 Collaboration A279 (1989) 83
Evans, H.C., see Sharma, K.S. A275 (1989) 123
Evans, S.H., see Bradley, D.A. A280 (1989) 380
Extermann, P., see Bartha, G.T. A275 (1989) 59
Extermann, P., see Bakken, J.A. A275 (1989) 81
Extermann, P., see Bakken, J.A. A280 (1989) 25
Eyl, D., see Richter, A.W. A274 (1989) 249
Eyrich, W., see Gils, H.J. A276 (1989) 169

Fabbretti, R., see Adeva, B. A277 (1989) 187
Fabbretti, R., M. Fabre, H.P. Von Gunten, J. Haefliger, L. Li, P. Razis, B. Schafheitle, P.G. Seiler and G. Wemmers, The Laser Beacon. A survey system for the torsion-free alignment and monitoring of the L3 Muon Spectrometer octants A280 (1989) 13
Fabbri, F., see Artusi, G. A279 (1989) 523
Fabbri, F.L., see Bari, G. A277 (1989) 11
Faber, G., see Duinker, P. A273 (1988) 814
Fabre, J.P., see Breskin, A. A273 (1988) 798
Fabre, J-P., see Ansorge, R.E. A273 (1988) 826
Fabre, J.P., see Destruel, P. A276 (1989) 69
Fabre, J.P., see Angelini, C. A277 (1989) 132

Fabre, M., see Adeva, B. ... A277 (1989) 187
Fabre, M., see Fabbretti, R. ... A280 (1989) 13
Fabrici, E., see Milinković, Lj.S. ... A273 (1988) 87
Fabrici, E., see Milinkovic, Lj.S. ... A276 (1989) 418
Fabris, A. and A. Massarotti, Proposal for a variable energy RFQ ... A273 (1988) 1
Fagg, L.W., see Feldl, E.J. ... A274 (1989) 439
Fainberg, Ya.B., see Karas', V.I. ... A278 (1989) 245
Faissler, W., see Engels Jr, E. ... A279 (1989) 272
Faj, Z., see Planinić, J. ... A278 (1989) 550
Falcão, A.N., see Margaça, F.M.A. ... A274 (1989) 606
Falciano, S., see Bakken, J.A. ... A275 (1989) 81
Falciano, S., see Bakken, J.A. ... A280 (1989) 25
Faltens, A., see Mark, J.W.-K. ... A278 (1989) 186
Faltens, A., see Rutkowski, H.L. ... A278 (1989) 206
Fan, M. and S. Pissanetzky, Three-dimensional magnetic engineering: the programs MAGNUS and EPILOG ... A272 (1988) 606
Fang, H., see Couprie, M.E. ... A272 (1988) 166
Fann, W., see Carlson, K. ... A272 (1988) 92
Fanourakis, G., see Engels Jr, E. ... A279 (1989) 272
Farkhondeh, M., see Beck, D. ... A277 (1989) 323
Faruqi, A.R., Development and application of multiwire detectors in biological X-ray studies ... A273 (1988) 754
Faust, W., see Ebel, F. ... A272 (1988) 626
Faust, W., see Ebel, F. ... A274 (1989) 1
Fauth, A.C., see Bari, G. ... A277 (1989) 11
Favart, D., see De Winter, K. ... A277 (1989) 83
Favart, D., see De Winter, K. ... A277 (1989) 170
Favart, D., see CHARM II Collaboration ... A278 (1989) 670
Favier, J., see Ait-Boubker, S. ... A277 (1989) 461
Favier, J., see Berger, J. ... A279 (1989) 343
Fawley, W.M., see Throop, A.L. ... A272 (1988) 15
Fawley, W.M., see Jong, R.A. ... A272 (1988) 99
Fazely, A., see Durkin, L.S. ... A277 (1989) 386
Featherly, J., see D0 Calorimeter Group ... A280 (1989) 36
Fedder, I., see Duhm, H.H. ... A277 (1989) 565
Fedder, I., see SICAPO Collaboration ... A279 (1989) 57
Federspiel, A., see Ansari, R. ... A279 (1989) 388
Fehlmann, J., see Böhm, A. ... A273 (1988) 471
Feinstein, F., see Ducros, Y. ... A277 (1989) 401
Feinstein, F., see Detœuf, J.F. ... A279 (1989) 310
Feinstein, J., see Fisher, A.S. ... A272 (1988) 89
Feinstein, J., see Reid, M.B. ... A272 (1988) 268
Feldbacher, R. and M. Heindler, Basic cross section data for aneutronic reactor ... A271 (1988) 55
Felder, K.C., see Robinson, H.G. ... A278 (1989) 655
Feldl, E.J., J.T. O'Brien, L.W. Fagg, H. Crannell and D.I. Sober, A rugged sliding vacuum seal for angular motion over a limited range ... A274 (1989) 439
Feldman, A., see Abe, F. ... A271 (1988) 387
Feldman, D.W., see Carlsten, B.E. ... A272 (1988) 247
Felici, G., see Albrizio, R. ... A271 (1988) 449
Felici, G., see Baldini-Celio, R. ... A280 (1989) 45
Felici, R., see Cilloco, F. ... A276 (1989) 401
Fellinger, J., see Schmidt, P. ... A272 (1988) 875
Felske, W., see Abegg, R. ... A273 (1988) 43
Feltesse, J., see Braunschweig, W. ... A275 (1989) 246
Fenelon, A., see Fryar, J. ... A271 (1988) 671
Fensome, I., see Bains, N. ... A279 (1989) 297
Ferbel, T., see Engels Jr, E. ... A279 (1989) 272
Ferbel, T., see D0 Calorimeter Group ... A280 (1989) 36
Ferguson, R.L., see Awes, T.C. ... A279 (1989) 479
Ferguson, R.L., see Young, G.R. ... A279 (1989) 503
Fernandes, P., see Boni, R. ... A274 (1989) 49
Fernandez, B., see Bianchi, L. ... A276 (1989) 509
Fernández, J.E., V.G. Molinari and M. Sumini, Effect of the X-ray scattering anisotropy on the diffusion of

photons in the frame of the transport theory ... A280 (1989) 212
Fernández, J.E. and M. Rubio, Influence of the propagation-plane inclination angle on the fluorescent intensity: study of the emission of small-thickness samples and determination of the maximum emission angle ... A280 (1989) 539
Fernández, J.E., M. Rubio and J.H. Sánchez, A method of XRF spectrochemical analysis based on some geometrical properties of the X-ray fluorescent intensity ... A280 (1989) 546
Ferrando, A., see UA1 Collaboration ... A279 (1989) 114
Ferrari, M., see Artusi, G. ... A279 (1989) 523
Ferrarotto, F., see Braunschweig, W. ... A275 (1989) 246
Ferreira Marques, R., see De Fraga, F.A.F. ... A272 (1988) 921
Ferreira Marques, R., see De Fraga, F.A.F. ... A279 (1989) 339
Ferrer, A., see Checchia, P. ... A275 (1989) 49
Ferrer, A., see Allen, P. ... A277 (1989) 347
Ferrer, A., see DELPHI Forward ElectroMagnetic Group ... A279 (1989) 473
Ferri, G., F. Groppi, F. Lemeilleur, S. Pensotti, P.G. Rancoita, A. Seidman and L. Vismara, The structure of lateral electromagnetic shower development in Si/W and Si/U calorimeters ... A273 (1988) 123
Ferro, A., see ISOCELE Collaboration ... A274 (1989) 485
Ferro Fontan, C. and F.T. Gratton, Large orbit plasma stability theory ... A271 (1988) 100
Ferro-Fontan, C., see Kulsrud, R. ... A271 (1988) 222
Ferroni, F., see Bakken, J.A. ... A275 (1989) 81
Ferroni, F., see Borgia, B. ... A279 (1989) 91
Ferroni, F., see Bakken, J.A. ... A280 (1989) 25
Fesefeldt, H., see Böhm, A. ... A273 (1988) 471
Fessenden, T.J., Research on ion induction linacs at Berkeley ... A278 (1989) 13
Fessenden, T.J., see Meuth, H. ... A278 (1989) 153
Fick, D., see Luck, W.S. ... A278 (1989) 375
Fick, D., see Völk, H.-G. ... A279 (1989) 443
Field, C., see Fulton, R. ... A274 (1989) 37
Field, C., see Bonvicini, G. ... A277 (1989) 297
Field, C., see Bowden, G. ... A278 (1989) 664
Field, G.M., see England, J.B.A. ... A280 (1989) 291
Fields, D.J., see Murakami, T. ... A275 (1989) 112
Fifield, L.K., see Ophel, T.R. ... A272 (1988) 734
Figley, C.B., A high speed electrostatic kicker for the pulse stretcher ring at Saskatchewan Accelerator Laboratory ... A273 (1988) 59
Filatova, N.A., V.M. Golovatyuk, R.B. Kadyrov, V.N. Pozdnyakov, V.N. Ryzhov, A.B. Sadovsky, M.D. Shafranov, Tz. Spassov, V.G. Timofeev, E.N. Tsyganov, I.A. Tyapkin, A.S. Vodopianov, N.I. Zimin, A.I. Zinchenko, G.A. Akopdjanov, G.I. Sorokin, K.G. Denisenko, Z. Guzik and J. Wojtkowska, Investigations of the characteristics of the DELPHI hadron calorimeter prototype ... A272 (1988) 707
Filatova, N.A., Yu.N. Gotra, R.B. Kadyrov, V.N. Pozdnyakov, V.N. Ryzhov, A.B. Sadovsky, Tz. Spassov, V.G. Timofeev, E.N. Tsyganov, I.A. Tyapkin, A.S. Vodopianov, N.I. Zimin and A.I. Zinchenko, The DELPHI hadron calorimeter module characteristics in the saturated proportional mode of its detector operation ... A279 (1989) 518
Filges, D., see Job, P.K. ... A271 (1988) 442
Filges, D., see Anders, B. ... A277 (1989) 56
Finch, A., see Dombeck, T. ... A272 (1988) 650
Finckh, E., see Cub, J. ... A274 (1989) 217
Findlay, D.J.S., Analytic representation of bremsstrahlung spectra from thick radiators as a function of photon energy and angle ... A276 (1989) 598
Finocchiaro, G., see Clark, A.R. ... A279 (1989) 243
Finocchiaro, P., C. Maiolino and P. Piattelli, The data acquisition system for the crystal ball at LNS ... A271 (1988) 557
Finocchiaro, P., A. Anzalone and C. Maiolino, ENDAT: A general purpose data acquisition trigger ... A271 (1988) 563
Fiore, E.M., see Pantaleo, A. ... A276 (1989) 191
Fiore, L., see Pantaleo, A. ... A276 (1989) 191
Fiorini, E., see Alessandrello, A. ... A279 (1989) 142
Fiorito, R.B., see Maruyama, X.K. ... A272 (1988) 237
Fischer, P., see Drees, A. ... A273 (1988) 793
Fischer, P., see Breskin, A. ... A273 (1988) 798
Fishel, D.L., see Hunt, J.E. ... A274 (1989) 597
Fisher, A., see Garate, E. ... A272 (1988) 129
Fisher, A.S., R.H. Pantell, M.B. Reid, J. Feinstein, A.H. Ho, M. Özcan and H.D. Dulman, Observations of gain and pressure tuning in a gas-loaded FEL ... A272 (1988) 89
Fisher, A.S., see Reid, M.B. ... A272 (1988) 268

Fisher, C., see Begalli, M. ... A276 (1989) 105
Fisher, C.M., see Angelini, C. ... A277 (1989) 132
Fisk, H.E., see D0 Calorimeter Group ... A280 (1989) 36
Fitch, J.S., see Durkin, L.S. ... A277 (1989) 386
Flaminio, V., see Angelini, C. ... A277 (1989) 132
Flanz, J., see Beck, D. ... A277 (1989) 323
Flauger, W., see Braunschweig, W. ... A275 (1989) 246
Flaugher, B., see Abe, F. ... A271 (1988) 387
Flegel, W., see De Winter, K. ... A277 (1989) 83
Flegel, W., see De Winter, K. ... A277 (1989) 170
Flegel, W., see CHARM II Collaboration ... A278 (1989) 670
Fletcher, J.G., see Crout, N.M.J. ... A277 (1989) 664
Fleurier, C., see Deutsch, C. ... A278 (1989) 38
Fleurier, C., see Weyrich, K. ... A278 (1989) 52
Flibotte, S., see Gascon, J. ... A278 (1989) 491
Flores, I., see Engelage, J. ... A277 (1989) 431
Flores-Llamas, H., see Jiménez-Domínguez, H. ... A278 (1989) 625
Floros, P., see Artusi, G. ... A279 (1989) 523
Flückiger, E.O., see Debrunner, H. ... A278 (1989) 573
Flynn, P., see Bains, N. ... A279 (1989) 297
Foa, L., see Albrizio, R. ... A271 (1988) 449
Focardi, E., see Abe, F. ... A271 (1988) 387
Focardi, E., see Batignani, G. ... A273 (1988) 677
Focardi, E., see Apollinari, G. ... A277 (1989) 138
Focardi, E., see Batignani, G. ... A277 (1989) 147
Focardi, E., see Apollinari, G. ... A279 (1989) 396
Foos, C., see De Winter, K. ... A277 (1989) 83
Foos, C., see De Winter, K. ... A277 (1989) 170
Foos, C., see CHARM II Collaboration ... A278 (1989) 670
Ford, T.D., F.P. Brady, C.M. Castaneda, J.R. Drummond, B. McEachern, J.L. Romero and D.S. Sorenson, A large dynamic range detector for measurement of neutron-induced charged particle spectra down to zero degrees ... A274 (1989) 253
Forden, G.E., see D0 Calorimeter Group ... A280 (1989) 36
Forkert, L., see McKee, B.T.A. ... A272 (1988) 825
Forrest, D.J., see Dunphy, P.P. ... A274 (1989) 362
Forsgren, P.-O., see Mossberg, K. ... A278 (1989) 755
Forsyth, J.B., R.T. Lawrence and C.C. Wilson, A PSD for neutron diffraction ... A273 (1988) 741
Forti, F., see Albrizio, R. ... A271 (1988) 449
Forti, F., see Batignani, G. ... A273 (1988) 677
Forti, F., see Batignani, G. ... A277 (1989) 147
Fortner, M., see Brown, C. ... A279 (1989) 331
Forty, R.W., see Barber, G.J. ... A279 (1989) 212
Fossan, D.B., see Pai, S. ... A278 (1989) 749
Fossum, E.R., Charge-domain analog signal processing for detector arrays ... A275 (1989) 530
Foster, G.W., see Abe, F. ... A271 (1988) 387
Fournet-Fayas, J., see ISOCELE Collaboration ... A274 (1989) 485
Fowler, P.H., A.M. Gay, M.R.W. Masheder, R.T. Moses, R.N.F. Walker and A. Worley, Design and performance in orbit of the Bristol cosmic ray detector on the Ariel VI satellite ... A275 (1989) 175
Fowler, S.W., Biological control on the vertical flux of artificial radionuclides in marine waters ... A280 (1989) 529
Fowles, P., see Bemrose, C.R. ... A273 (1988) 874
Fox, R., see Angius, S.A. ... A273 (1988) 283
Frabetti, P.L., see Antipov, Yu.M. ... A274 (1989) 452
Fradkin, M.I., see Bui Van, N.A. ... A280 (1989) 419
Fraenkel, Z., see Drees, A. ... A273 (1988) 793
Fraenkel, Z., see Breskin, A. ... A273 (1988) 798
Francke, T. and M. Suffert, Yield of photoelectrons produced in TMAE and solid TMPD by BaF_2 scintillation light ... A276 (1989) 263
Francke, T., F. Montanet, P. Pavlopoulos, C. Rivoiron, J.C. Santiard and M. Suffert, Compact fast RICH detector using a solid radiator: principle and first experimental results ... A279 (1989) 317
Franke, G., see Bürger, J. ... A279 (1989) 217
Franke, T., see CPLEAR Collaboration ... A279 (1989) 305

Franklin, M., see Abe, F. ... A271 (1988) 387
Franz, A., see Awes, T.C. ... A279 (1989) 479
Franzini, P., see D0 Calorimeter Group ... A280 (1989) 36
Fraser, G.W., M.A. Barstow and J.F. Pearson, Imaging microchannel plate detectors for X-ray and XUV astronomy ... A273 (1988) 667
Fraser, J.S., see Sheffield, R.L. ... A272 (1988) 222
Fraser-Mitchell, J., see Dean, A.J. ... A273 (1988) 711
Freedman, M.S., Measurement of low energy neutrino absorption probability in thallium 205 ... A271 (1988) 267
Freedman, S.J., see Napolitano, J.J. ... A274 (1989) 152
Freeman, J., see Abe, F. ... A271 (1988) 387
Freeman, W.S., see Cossairt, J.D. ... A276 (1989) 78
Freeman, W.S., see Cossairt, J.D. ... A276 (1989) 86
Freer, M., see Woods, P.J. ... A276 (1989) 195
Freese, T., see Adler, J. ... A276 (1989) 42
Freiesleben, H., see Matulewicz, T. ... A274 (1989) 501
Freiesleben, H., see Brinkmann, K.-Th. ... A276 (1989) 557
Freitas, P.A.B., see Gomes, P.R.S. ... A280 (1989) 395
French, B.R., see WA76 Collaboration ... A274 (1989) 165
Frenkel, A., see Aoki, S. ... A274 (1989) 64
Frenkel, A., see Angelini, C. ... A277 (1989) 132
Frenkel-Rambaldi, A., see CHARM II Collaboration ... A278 (1989) 670
Frenzl, O., see Dierickx, B. ... A275 (1989) 527
Freund, H.P., H. Bluem and C.L. Chang, Three-dimensional simulation of free electron lasers with planar wigglers ... A272 (1988) 556
Freund, H.P., see Bluem, H. ... A272 (1988) 579
Frey, R., see Bonvicini, G. ... A277 (1989) 297
Friedman, A., see Dutt, S.K. ... A272 (1988) 564
Friedman, A., see Mark, J.W.-K. ... A278 (1989) 186
Friedman, J.I., see Benvenuti, A.C. ... A276 (1989) 94
Friedman, J.I., see Womersley, W.J. ... A278 (1989) 447
Friedrich, J., The rôle of the number of independent time channels for dead-time losses in coincidence experiments ... A279 (1989) 587
Friedrich, L., E. Huttel and P.A. Schmelzbach, Ionization of a polarized hydrogen atomic beam in an ECR discharge (*Letter to the Editor*) ... A272 (1988) 906
Friend, B., see CHARM II Collaboration ... A278 (1989) 670
Frisch, H., see Abe, F. ... A271 (1988) 387
Frisken, W.R., see ARGUS Collaboration ... A275 (1989) 1
Froberger, J.P., see Bloch, D. ... A273 (1988) 847
Frolov, A.M., V.A. Maisheev and R.A. Rzaev, Possibility of obtaining high energy polarized proton/antiproton beams from $\Sigma^+\widehat{\Sigma^+}$-hyperon decays ... A280 (1989) 7
Fromm, W.D., see Manfrass, P. ... A273 (1988) 904
Fry, J., see Begalli, M. ... A276 (1989) 105
Fry, J.R., see CP-LEAR Collaboration ... A279 (1989) 285
Fryar, J., K.J. McCarthy and A. Fenelon, Multielement imaging in computerised X-ray tomography ... A271 (1988) 671
Fu, E.S., see Du, X.W. ... A272 (1988) 29
Fu Shuzhen, see Su Yi ... A272 (1988) 147
Fuess, S., see Benvenuti, A.C. ... A276 (1989) 94
Fuess, S., see Womersley, W.J. ... A278 (1989) 447
Fuess, T.A., see UA1 Collaboration ... A279 (1989) 83
Fuggle, J.C., see Goedkoop, J.B. ... A273 (1988) 429
Fuggle, J.C., see Kortboyer, S.W. ... A275 (1989) 435
Fuglesang, C., A method for correcting observed distributions of multiplicities using the maximum entropy principle ... A278 (1989) 765
Fujieda, I., see Perez-Mendez, V. ... A273 (1988) 127
Fujieda, I., see Kaplan, S.N. ... A273 (1988) 611
Fujii, H. and M. Takiue, Radioassay of dual-labeled samples by sequential Cherenkov counting and liquid scintillation efficiency tracing technique ... A273 (1988) 377
Fujii, H., see Takiue, M. ... A274 (1989) 345
Fujii, T., see Katano, R. ... A280 (1989) 285
Fujikawa, B.K., see Durkin, L.S. ... A277 (1989) 386
Fujiki, T., see Ohgaki, H. ... A273 (1988) 522

Fujinaga, T., M. Ichimura, Y. Niihori and T. Shibata, Energy determination of electron–photon showers induced by heavy cosmic-ray primaries ... A276 (1989) 317
Fujine, S., see Ikeda, Y. ... A276 (1989) 183
Fujita, F.E., see Uehara, S.-I. ... A276 (1989) 543
Fujita, S., see Mima, K. ... A272 (1988) 106
Fujita, Y., see Koori, N. ... A278 (1989) 737
Fujitani, T., see Chiba, M. ... A276 (1989) 122
Fujiwara, N., see Noguchi, S. ... A271 (1988) 404
Fukuda, S., see Shidara, T. ... A279 (1989) 423
Fukuda, Y., see Suzuki, Y. ... A275 (1989) 142
Fukugita, M., Neutrinos in cosmology and astrophysics ... A271 (1988) 248
Fukui, Y., see Abe, F. ... A271 (1988) 387
Fukumoto, S., see Ueno, A. ... A271 (1988) 343
Fukumoto, S., see Mori, Y. ... A273 (1988) 5
Fukumoto, S., see Mori, Y. ... A278 (1989) 605
Fukumura, K., see Katano, R. ... A280 (1989) 285
Fukunaga, Ch., see ARGUS Collaboration ... A275 (1989) 1
Fukushima, K., see Gomei, Y. ... A278 (1989) 389
Fukushima, T., see Arai, S. ... A278 (1989) 236
Fulgione, W., see Bari, G. ... A277 (1989) 11
Fulgione, W., see Aglietta, M. ... A277 (1989) 17
Fulgione, W., see Aglietta, M. ... A277 (1989) 23
Fulton, B.R., see Woods, P.J. ... A276 (1989) 195
Fulton, R., J. Haggerty, R. Jared, R. Jones, J. Kadyk, C. Field, W. Kozanecki and W. Koska, A high resolution wire scanner for micron-size profile measurements at the SLC ... A274 (1989) 37
Furetta, C., see SICAPO Collaboration ... A279 (1989) 57
Furetta, C., see Borchi, E. ... A279 (1989) 277
Furetta, C. and J. Azorín, Simultaneous determination of dose and time elapsed since irradiation using $CaSO_4$:Dy thermoluminescent dosimeters ... A280 (1989) 318
Furić, M., see Petković, T. ... A273 (1988) 833
Furuno, K., T. Komatsubara and T. Kimura, Heavy-ion postaccelerator at the University of Tsukuba ... A277 (1989) 286

Gaalema, S., see Shapiro, S.L. ... A275 (1989) 580
Gaardhøje, J.J., see Moszyński, M. ... A280 (1989) 73
Gabriel, A., see Lewis, R. ... A273 (1988) 773
Gabriel, T.A., see Brau, J.E. ... A275 (1989) 190
Gabriel, T.A., see Goodman, M.S. ... A278 (1989) 441
Gabriel, T.A., see Brau, J.E. ... A279 (1989) 40
Gabriel, T.A., see Awes, T.C. ... A279 (1989) 479
Gabriel, T.A., see Young, G.R. ... A279 (1989) 503
Gabutti, A., R.G. Wagner, K.E. Gray, R.T. Kampwirth and R.H. Ono, Superconducting detector for minimum ionizing particles ... A278 (1989) 425
Gaethke, U., see Bürger, J. ... A279 (1989) 217
Gagliardi, C.A., R.E. Tribble, L.A. Van Ausdeln, W.B. Cade, D.B. Debrecht and D.C. Debrecht, Performance of 3 m fiber optic light guides ... A273 (1988) 117
Gaillard, G., see Arvieux, J. ... A273 (1988) 48
Gaillard, J-M., see Ansorge, R.E. ... A273 (1988) 826
Gaillard, J-M., see Alitti, J. ... A279 (1989) 364
Gaillard, M., see Coyle, P. ... A273 (1988) 858
Gaines, I., see Abe, F. ... A271 (1988) 387
Galagedera, S., see Bains, N. ... A279 (1989) 297
Galaktionov, Yu., see L3 Collaboration ... A275 (1989) 71
Galeazzi, G., see Checchia, P. ... A275 (1989) 49
Galeazzi, G., see DELPHI Forward ElectroMagnetic Group ... A279 (1989) 473
Galeotti, P., see Bari, G. ... A277 (1989) 11
Galeotti, P., see Aglietta, M. ... A277 (1989) 23
Galeotti, S., see Abe, F. ... A271 (1988) 387
Gallardo, J.C., see Dattoli, G. ... A272 (1988) 351
Gallardo, J.C., G. Dattoli, A. Renieri and T. Hermsen, Integral equation for the laser field: multimode description of a free electron laser oscillator ... A272 (1988) 516
Gallerano, G-P., see Walsh, J. ... A272 (1988) 132

Galovich, C.S., S.S. Hanna and D.L. Clark, Design and performance of an electron–positron pair detector A271 (1988) 483
Gamba, D., see Aoki, S. A274 (1989) 64
Gamba, D., see Checchia, P. A275 (1989) 49
Gamba, D., see DELPHI Forward ElectroMagnetic Group A279 (1989) 473
Gamberini, G., see Camporesi, T. A277 (1989) 230
Gámez, L., see Velarde, G. A278 (1989) 105
Ganciu, M., see Vlad, M. A274 (1989) 613
Ganginov, A., see Artamonov, A. A279 (1989) 531
Gao, W.-Z., see Chen, M.-B. A278 (1989) 402
Gao, W.-Z., see Chen, M.-B. A278 (1989) 409
Garate, E., R. Cherry and A. Fisher, Far infrared Cherenkov free electron laser A272 (1988) 129
Garavel, J-L., see Ansorge, R.E. A273 (1988) 826
Garbincius, P.H., see Bartha, G.T. A275 (1989) 59
Garbutt, D.A., see Barber, G.J. A279 (1989) 212
Garcia, M., see ZEUS Calorimeter Group A274 (1989) 134
Garcia-Toraño, E., see Coursey, B.M. A279 (1989) 603
Gardes, D., see Deutsch, C. A278 (1989) 38
Gardès, D., see Weyrich, K. A278 (1989) 52
Gardner, I.S.K., see Martin, R.L. A278 (1989) 151
Garelick, D., see Engels Jr, E. A279 (1989) 272
Garfinkel, A.F., see Abe, F. A271 (1988) 387
Garg, M.L., see Chand, B. A273 (1988) 310
Garpman, S.I.A., see Albrecht, R. A276 (1989) 131
Garrison, J.C. and J. Wong, Scaling laws for saturation in free electron lasers A272 (1988) 279
Garvey, G.T., see Napolitano, J.J. A274 (1989) 152
Garvey, J., see Bains, N. A279 (1989) 297
Gascon, J., P. Taras, F. Banville, M. Beaulieu, R. Bornais, S. Flibotte and B. Lorazo, Nuclear spectroscopy data sorting with parallel processors A278 (1989) 491
Gasparini, F., R. Carlin, G. Carosi, G. D'Agostini, M. De Giorgi, U. Dosselli, M. Gaspero, S. Limentani, G. Marini, M. Morandin, A. Nigro, M. Posocco, L. Stanco, R. Stroili and C. Voci, High precision bidimensional readout for LST A273 (1988) 485
Gasparini, U., see Checchia, P. A275 (1989) 49
Gasparini, U., see DELPHI Forward ElectroMagnetic Group A279 (1989) 473
Gaspero, M., see Gasparini, F. A273 (1988) 485
Gast, W., see Krämer-Flecken, A. A275 (1989) 333
Gastebois, J., see Bianchi, L. A276 (1989) 509
Gathright, T., see Abegg, R. A273 (1988) 43
Gatti, E., A. Longoni, M. Sampietro, P. Giacomelli, A. Vacchi, P. Rehak, J. Kemmer, P. Holl, L. Struder and W. Kubischta, Silicon drift chamber prototype for the upgrade of the UA6 experiment at the CERN pp̄ collider A273 (1988) 865
Gatti, E., P. Rehak and M. Sampietro, Double particle resolution in semiconductor drift detectors A274 (1989) 469
Gatti, E., see Radeka, V. A275 (1989) 536
Gatti, E., G. Ripamonti and M. Sampietro, Detector–preamplifier coupling with a shunt inductance: noise filtering with a flat top constraint in the weighting function A276 (1989) 588
Gau, S.S., see Adeva, B. A277 (1989) 187
Gaudaen, J., see Breskin, A. A273 (1988) 798
Gaupp, A., see Aab, V. A272 (1988) 53
Gavron, A., Flow analysis using calorimeters A273 (1988) 371
Gay, A.M., see Fowler, P.H. A275 (1989) 175
Gay, T.J., see Cates, G.D. A278 (1989) 293
Gayler, J., see Braunschweig, W. A275 (1989) 246
Gea-Banacloche, J., G.T. Moore, R.R. Schlicher, M.O. Scully and H. Walther, Proposal for a compact FEL with electromagnetic-wave undulator A272 (1988) 199
Geara, C., see Camporesi, T. A277 (1989) 77
Gebhard, M.W., see Nutter, S.L. A273 (1988) 389
Gebhardt, K., see Cub, J. A274 (1989) 217
Geer, S., see UA1 Collaboration A279 (1989) 83
Geiger, R.L., see DiBitonto, D. A279 (1989) 100
Geiregat, D., see De Winter, K. A277 (1989) 83
Geiregat, D., see De Winter, K. A277 (1989) 170
Geiregat, D., see CHARM II Collaboration A278 (1989) 670
Geissbühler, A., see Dominik, W. A278 (1989) 779

Geissdörfer, K., see Cub, J. ... A274 (1989) 217
Gelbke, C.K., see Murakami, T. ... A275 (1989) 112
Gell-Mann, M., Opening remarks to the session on new concepts ... A271 (1988) 165
Gelletly, W., see Woods, S.A. ... A272 (1988) 924
Gemmeke, H., see Giorginis, G. ... A273 (1988) 650
Gendre, G., see Baillon, P. ... A276 (1989) 492
Gendre, G., see Baillon, P. ... A277 (1989) 338
Gennari, E., see Cesaroni, F. ... A279 (1989) 671
Gennow, H., see ARGUS Collaboration ... A275 (1989) 1
Gentile, S., see Cesaroni, F. ... A279 (1989) 671
Gentry, D.N., see Barber, G.J. ... A279 (1989) 212
Geralis, T., see CP-LEAR Collaboration ... A279 (1989) 285
Gerecht, J., see D0 Calorimeter Group ... A280 (1989) 36
Gerhard, A., J. Brutscher, H. Klein, M. Kurz and A. Schempp, RFQ sparking experiments ... A278 (1989) 220
Gerhardy, P.R., see Bakich, A.M. ... A273 (1988) 853
Gerhardy, P.R., see Bakich, A.M. ... A278 (1989) 565
Gerke, C., see Aoki, S. ... A274 (1989) 64
Gerland, L., see De Winter, K. ... A277 (1989) 83
Gerland, L., see De Winter, K. ... A277 (1989) 170
Gerland, L., see CHARM II Collaboration ... A278 (1989) 670
Gero, E., see Bonvicini, G. ... A277 (1989) 297
Gervasoni, A., see Bassato, G. ... A275 (1989) 340
Gervino, G., see Manfredotti, C. ... A271 (1988) 571
Gettner, M., see Adeva, B. ... A277 (1989) 187
Gevorkyan, V.G., see Alimov, A.S. ... A278 (1989) 379
Ghez, Ph., see Aubert, B. ... A279 (1989) 126
Ghia, P., see Bari, G. ... A277 (1989) 11
Ghia, P., see Aglietta, M. ... A277 (1989) 23
Ghidini, B., see WA76 Collaboration ... A274 (1989) 165
Ghose, A.M., see Bradley, D.A. ... A280 (1989) 207
Ghose, A.M., Optimisation of the time-of-flight geometry for fast neutrons ... A280 (1989) 322
Ghose, A.M., see Bradley, D.A. ... A280 (1989) 392
Ghose, S., see Harms, A.A. ... A271 (1988) 225
Giacomelli, G., see Artusi, G. ... A279 (1989) 523
Giacomelli, P., see Gatti, E. ... A273 (1988) 865
Giacomich, R., see SICAPO Collaboration ... A279 (1989) 57
Giannetti, P., see Abe, F. ... A271 (1988) 387
Giannetti, P., see Budinich, M. ... A273 (1988) 315
Giassi, A., see Albrizio, R. ... A271 (1988) 449
Gibaut, D., see Begalli, M. ... A276 (1989) 105
Gibbard, B.G., see D0 Calorimeter Group ... A280 (1989) 36
Gigante, G.E., A new approach to evaluate the response functions for conical and cylindrical collimators ... A275 (1989) 397
Gigante, G.E. and A.L. Hanson, The assessment of geometrical effects on Compton profile measurements ... A280 (1989) 299
Gil, L.R. and A. Marques, Range-to-cone-length relations for light ions in ^{39}Cr ... A280 (1989) 301
Gildemeister, O., see Borer, K. ... A273 (1988) 605
Gildemeister, O., see Ansari, R. ... A279 (1989) 388
Giles, G.L., see Roney, J.M. ... A279 (1989) 236
Gilkinson, D.J., see ARGUS Collaboration ... A275 (1989) 1
Gill, D.R., see Shin, Y.M. ... A274 (1989) 227
Gill, R.L., see Mach, H. ... A280 (1989) 49
Gillette, V.H., N.E. Patiño, J.R. Granada and R.E. Mayer, Evaluation of neutron thermalization parameters and benchmark reactor calculations using a synthetic scattering function for molecular gases ... A280 (1989) 273
Gillibert, A., see Bianchi, L. ... A276 (1989) 509
Gillman, A.R., see Damerell, C.J.S. ... A275 (1989) 484
Gilmore, R.S., see Llewellyn, T.J. ... A273 (1988) 869
Gils, H.J., J. Buschmann, S. Zagromski, J. Krisch and H. Rebel, The QQDS magnetic spectrograph "Little John" at the Karlsruhe cyclotron. I. Design and construction ... A276 (1989) 151
Gils, H.J., H. Jelitto, H. Schlösser, S. Zagromski, J. Buschmann, W. Eyrich, A. Hofmann, J. Kiener, A. Lehmann and H. Rebel, The QQDS magnetic spectrograph "Little John" at the Karlsruhe cyclotron. II. Experimental procedures and performance ... A276 (1989) 169
Gingrich, D.M., see ARGUS Collaboration ... A275 (1989) 1

Ginther, G., see Engels Jr, E. A279 (1989) 272
Giokaris, N., see Abe, F. A271 (1988) 387
Giomataris, Y., see Arnold, R. A273 (1988) 466
Giomataris, Y., A. Gougas, W. Dominik, G. Charpak, F. Sauli and N. Zaganidis, A ring-imaging detector with liquid and solid radiators using a multistep parallel-plate avalanche chamber at atmospheric pressure with optical readout A279 (1989) 322
Giorgi, M.A., see Albrizio, R. A271 (1988) 449
Giorgi, M.A., see Batignani, G. A273 (1988) 677
Giorgi, M.A., see Batignani, G. A277 (1989) 147
Giorginis, G., D. Mann, K. Ottmann, S. Wölfle, H. Gemmeke, R. Maschuw and B. Zeitnitz, A liquid argon TPC A273 (1988) 650
Giorni, A., see Guinet, D. A278 (1989) 614
Giromini, P., see Abe, F. A271 (1988) 387
Gitomer, S.J., S.C. Bender and B.D. McVey, Mode–media interactions in an FEL A272 (1988) 610
Giubellino, P., see Aoki, S. A274 (1989) 64
Giubellino, P., F. Meddi, V.A. Polychronakos, L. Ramello, L. Riccati and S. Simone, Performance of the silicon ring counters for the HELIOS experiment at CERN A275 (1989) 89
Giubellino, P., see SICAPO Collaboration A279 (1989) 57
Giubellino, P., L. Ramello and L. Riccati, Silicon detectors in a high multiplicity environment A279 (1989) 259
Giubellino, P., see Borchi, E. A279 (1989) 277
Giuliani, A., see Alessandrello, A. A279 (1989) 142
Givernaud, A., see UA1 Collaboration A279 (1989) 114
Gjaja, I. and A. Bhattacharjee, Relativistic quantum dynamics and quantum noise in short-wavelength free electron lasers A272 (1988) 293
Gjaja, I. and A. Bhattacharjee, Generation of squeezed radiation from a free electron laser A272 (1988) 297
Gladney, L., see Abe, F. A271 (1988) 387
Glagola, B.G., see Paul, M. A277 (1989) 418
Gläser, R., see ARGUS Collaboration A275 (1989) 1
Glässel, P., see Drees, A. A273 (1988) 793
Glässel, P., see Breskin, A. A273 (1988) 798
Glaubman, M., see Engels Jr, E. A279 (1989) 272
Glebov, V., see Brown, C. A279 (1989) 331
Gnavi, G. and F.T. Gratton, Models of ion beam interactions for the stability analysis of migma A271 (1988) 112
Gobbi, B., see Clark, A.R. A279 (1989) 243
Goddard, M., see ARGUS Collaboration A275 (1989) 1
Godfrey, L., see Roney, J.M. A279 (1989) 236
Godlove, T.F., Heavy-ion inertial fusion: 1988 symposium summary A278 (1989) 288
Goebel, J., see Gothe, R.W. A276 (1989) 233
Goedkoop, J.B., J.C. Fuggle, B.T. Thole, G. Van der Laan and G.A. Sawatzky, Circularly polarization line filters in the soft X-ray range A273 (1988) 429
Goedkoop, J.B., see Kortboyer, S.W. A275 (1989) 435
Goetz, T., see McKee, B.T.A. A272 (1988) 825
Gold, M., see Abe, F. A271 (1988) 387
Golden, J. and R.A. Miller, Monte Carlo simulation of energy balance in a pure ^{3}He migma of 4 MeV A271 (1988) 79
Goldey, P.R., see Artusi, G. A279 (1989) 523
Goldfarb, S., see Chen, C. A272 (1988) 713
Goldfarb, S., see L3 Collaboration A275 (1989) 71
Goldschmidt-Clermont, Y., see WA76 Collaboration A274 (1989) 165
Goldstein, J.C., B.E. Newnam and R.W. Warren, Sideband suppression by an intracavity optical filter in the Los Alamos free electron laser oscillator A272 (1988) 150
Goldstein, J.C., see Warren, R.W. A272 (1988) 155
Goldstein, J.C., B.D. McVey and C.J. Elliott, Conceptual designs of a 50 nm FEL oscillator and a 20–40 nm SASE amplifier A272 (1988) 177
Goloskie, R., see Beck, D. A277 (1989) 323
Golovatyuk, V.M., see Filatova, N.A. A272 (1988) 707
Golutvin, A., see ARGUS Collaboration A275 (1989) 1
Gomei, Y., K. Nakayama, K. Fukushima and S. Sukenobu, Ion trapping in a superconducting circular electron storage ring A278 (1989) 389
Gomes, P.R.S., T.J.P. Penna, R. Liguori Neto, J.C. Acquadro, C. Tenreiro, P.A.B. Freitas, E. Crema, N. Carlin Filho and M.M. Coimbra, Nuclear fusion between heavy ions by the gamma-ray spectroscopy method A280 (1989) 395
Gomez, J.J., see Checchia, P. A275 (1989) 49
Gonçalves, O.D., S. De Barros and J. Eichler, Comparison between measurements on Rayleigh scattering and

form-factor theories for 1 $Å^{-1} \leqslant x \leqslant 50\ Å^{-1}$ ... A280 (1989) 375
Gondrand, J.C., see Merchez, F. ... A275 (1989) 133
Gonidec, A., see Ochsenbein, S. ... A273 (1988) 654
Gonidec, A., see Buckley, E. ... A275 (1989) 364
Gonidec, A., see UA1 Collaboration ... A279 (1989) 83
Gönnenwein, F., see Heeg, P. ... A278 (1989) 452
González, C., see Velarde, G. ... A278 (1989) 105
Gonzalez, E., see Adeva, B. ... A277 (1989) 187
Gonzalez, S., see Benvenuti, A.C. ... A276 (1989) 94
Gonzalez, W.D., see Pinto Jr., O. ... A280 (1989) 499
Gonzalez-Mestres, L., see Boniface, J. ... A279 (1989) 376
Gonzalez-Mestres, L. and D. Perret-Gallix, Detection of low energy solar neutrinos and galactic dark matter with crystal scintillators ... A279 (1989) 382
Good, M.L., see D0 Calorimeter Group ... A280 (1989) 36
Goodman, M.C., see Womersley, W.J. ... A278 (1989) 447
Goodman, M.S., T.A. Gabriel, A. Di Ciaccio and R. Wilson, Sources of compensation in hadronic calorimeters ... A278 (1989) 441
Goodwin, R.W., see Droege, T.F. ... A279 (1989) 359
Googins, J., see Dunphy, P.P. ... A274 (1989) 362
Googins, J., see Owens, A. ... A275 (1989) 416
Goozen, F., see Clark, A.R. ... A279 (1989) 243
Gopalakrishnan, N.V., see Apte, A.R. ... A273 (1988) 403
Goplen, B., Migma IVa and IVb simulation results ... A271 (1988) 140
Gorban', A.M., V.A. Kiyashko and E.A. Kornilov, Simulation of an induction linac for space-charge-neutralized ion beams ... A278 (1989) 251
Gorbatov, Yu.I., see Alimov, A.S. ... A278 (1989) 379
Gorbunov, P., see De Winter, K. ... A277 (1989) 83
Gorbunov, P., see De Winter, K. ... A277 (1989) 170
Gorbunov, P., see CHARM II Collaboration ... A278 (1989) 670
Gorbunov, P., see Artamonov, A. ... A279 (1989) 531
Gordeev, A., see L3 Collaboration ... A275 (1989) 71
Gordon, H.A., see D0 Calorimeter Group ... A280 (1989) 36
Gorin, Yu.P., see Antipov, Yu.M. ... A274 (1989) 452
Gorini, E., see De Winter, K. ... A277 (1989) 83
Gorini, E., see De Winter, K. ... A277 (1989) 170
Gorini, E., see CHARM II Collaboration ... A278 (1989) 670
Gorini, G., see Del Guerra, A. ... A273 (1988) 500
Gorodkov, Yu., see Chen, C. ... A272 (1988) 713
Gorodkov, Yu., see L3 Collaboration ... A275 (1989) 71
Görres, J., see Chapuran, T. ... A272 (1988) 767
Gorshkov, V.A., see Yeremin, A.V. ... A274 (1989) 528
Gössling, C., see Borer, K. ... A273 (1988) 605
Gössling, C., see Ansari, R. ... A279 (1989) 388
Goswamy, J., see Chand, B. ... A273 (1988) 310
Gothe, R.W., R. Beck, D. Irmscher, J. Goebel, B. Schoch, J.M. Vogt, K. Min, L.Y. Murphy, K. So, E.J. Winhold, M. Yamazaki, P.F. Yergin, S.J. Hall, J.D. Kellie, I.J.D. MacGregor and D. Branford, Detection of low energy pions at a tagged photon beam ... A276 (1989) 233
Gotra, Yu.N., see Filatova, N.A. ... A279 (1989) 518
Gotta, D., see Borchert, G.L. ... A274 (1989) 507
Göttlicher, P., see Böhm, A. ... A273 (1988) 471
Gottschalk, S.C., see Quimby, D.C. ... A272 (1988) 192
Gouanère, M., see IHEP–IISN–LANL–LAPP Collaboration ... A276 (1989) 652
Gougas, A., see Giomataris, Y. ... A279 (1989) 322
Goulding, F., see Silver, E.H. ... A277 (1989) 657
Goulianos, K., see Abe, F. ... A271 (1988) 387
Gover, A., see Jerby, E. ... A272 (1988) 380
Gover, A., see Dutt, S.K. ... A272 (1988) 564
Gozani, T., see Drndarevic, V. ... A277 (1989) 532
Grab, C., see Adler, J. ... A276 (1989) 42
Graeff, W., see Engelke, K. ... A274 (1989) 380
Gräf, H.-D., see Aab, V. ... A272 (1988) 53
Granada, J.R., see Gillette, V.H. ... A280 (1989) 273

Granatstein, V.L., T.M. Antonsen, Jr, J.H. Booske, W.W. Destler, P.E. Latham, B. Levush, I.D. Mayergoyz, D.J. Radack, Z. Segalov and A. Serbeto, Near-millimeter free electron lasers with small period wigglers and sheet electron beams ... A272 (1988) 110
Grancagnolo, F., see De Winter, K. ... A277 (1989) 83
Grancagnolo, F., A central tracking detector for a B-factory ... A277 (1989) 110
Grancagnolo, F., see De Winter, K. ... A277 (1989) 170
Grancagnolo, F., see CHARM II Collaboration ... A278 (1989) 670
Grannis, P.D., see D0 Calorimeter Group ... A280 (1989) 36
Grard, F., see Daubie, E. ... A273 (1988) 553
Gratta, G., see Bakken, J.A. ... A275 (1989) 81
Gratta, G., see Bakken, J.A. ... A280 (1989) 25
Gratton, F.T., see Ferro Fontan, C. ... A271 (1988) 100
Gratton, F.T., see Gnavi, G. ... A271 (1988) 112
Grau Malonda, A., see Coursey, B.M. ... A279 (1989) 603
Graue, A., see Lien, J.R. ... A271 (1988) 693
Gräwe, B., see ARGUS Collaboration ... A275 (1989) 1
Gray, E.R., see Sheffield, R.L. ... A272 (1988) 222
Gray, K.E., see Gabutti, A. ... A278 (1989) 425
Grayer, G., see Bains, N. ... A279 (1989) 297
Greaves, G.N., see Allinson, N.M. ... A273 (1988) 620
Green, D., see Brown, C. ... A279 (1989) 331
Green, M.C., see Oettinger, P.E. ... A272 (1988) 264
Green, M.C., see Napolitano, J.J. ... A274 (1989) 152
Grégoire, G., see De Winter, K. ... A277 (1989) 83
Grégoire, G., see De Winter, K. ... A277 (1989) 170
Grégoire, G., see CHARM II Collaboration ... A278 (1989) 670
Gregory, J., see Bains, N. ... A279 (1989) 297
Grein, H., see Matulewicz, T. ... A274 (1989) 501
Greif, H., see Braunschweig, W. ... A275 (1989) 246
Greiner, D.E., see Engelage, J. ... A277 (1989) 431
Greiner, L., see Engelage, J. ... A277 (1989) 431
Gress, J., see Toothacker, W.S. ... A273 (1988) 97
Gretillat, P., see Merchez, F. ... A275 (1989) 133
Grianti, F., see Bari, G. ... A277 (1989) 11
Gribov, I.V., see Alimov, A.S. ... A278 (1989) 379
Grieder, P.K.F., see Matsuno, S. ... A276 (1989) 359
Grigoriev, E., see De Winter, K. ... A277 (1989) 83
Grigoriev, E., see De Winter, K. ... A277 (1989) 170
Grigoriev, E., see CHARM II Collaboration ... A278 (1989) 670
Grigoriev, E., see Artamonov, A. ... A279 (1989) 531
Grimani, C., see Basini, G. ... A276 (1989) 367
Grimson, J., see Abe, F. ... A271 (1988) 387
Grioni, M., see Kortboyer, S.W. ... A275 (1989) 435
Grisenti, R.G., see De Vries, J. ... A275 (1989) 194
Grisham, D.L., see Dombeck, T. ... A272 (1988) 650
Grishin, V.M. and G.I. Merson, A simple method for realistic estimation of most probable energy loss in thin gas layers ... A274 (1989) 551
Grönvik, K., see CPLEAR Collaboration ... A279 (1989) 305
Groenstege, H., see Duinker, P. ... A273 (1988) 814
Gromov, V.V. and O.V. Prokopyev, Mechanism of electric charge formation in irradiated polyethylene ... A280 (1989) 405
Gronberg, J., see UA1 Collaboration ... A279 (1989) 83
Groom, D.E., Radiation levels in SSC detectors ... A279 (1989) 1
Groppi, F., see Ferri, G. ... A273 (1988) 123
Gross, P., see Weis, T. ... A278 (1989) 224
Grosse, E., see Matulewicz, T. ... A274 (1989) 501
Grosse-Wiesmann, P., Colliding a linear electron beam with a storage ring beam ... A274 (1989) 21
Grosso-Pilcher, C., see Abe, F. ... A271 (1988) 387
Grote, H., see De Winter, K. ... A277 (1989) 83
Grote, H., see De Winter, K. ... A277 (1989) 170
Grote, H., see CHARM II Collaboration ... A278 (1989) 670
Grotowski, K., see Łukasik, J. ... A274 (1989) 265

Groves, J., see Woods, P.J. ... A276 (1989) 195
Grozdanova, B., see Stafilov, T. ... A271 (1988) 321
Grüebler, W., see Singy, D. ... A278 (1989) 349
Grünewald, M., see Bosseler, K. ... A277 (1989) 121
Grupen, C., see Baumgart, R. ... A272 (1988) 722
Grželić, I., Local electron density models for Tl to Pb conversion in lorandite ... A271 (1988) 308
Guarino, G., see Pantaleo, A. ... A276 (1989) 191
Guazzoni, P., see Annunziata, M. ... A271 (1988) 597
Guazzoni, P., G. Taiocchi and L. Zetta, A stretcher and holder module ... A278 (1989) 507
Guerra, S., see CHARM II Collaboration ... A278 (1989) 670
Guida, J.A., see D0 Calorimeter Group ... A280 (1989) 36
Guida, J.M., see D0 Calorimeter Group ... A280 (1989) 36
Guiducci, S., see Cavallo, N. ... A272 (1988) 64
Guillaume, G., A. Huck, P. Wagner, P. Baumann and G. Costa, An associated particle technique for absolute neutron counting efficiency determination ... A277 (1989) 458
Guinet, D., B. Chambon, B. Cheynis, A. Demeyer, D. Drain, X.C. Hu, C. Pastor, L. Vagneron, K. Zaid, A. Giorni, D. Heuer, A. Lleres and J.B. Viano, Using the combination CsI(Tl) and photodiode for identification and energy measurement of light particles (*Letter to the Editor*) ... A278 (1989) 614
Guisti, P., see Bari, G. ... A277 (1989) 11
Guisti, P., see Camporesi, T. ... A277 (1989) 230
Gul, K., A.A. Naqvi and H.A. Al-Juwair, Relative neutron detector efficiency and response function measurements with a ^{252}Cf neutron source ... A278 (1989) 470
Gundel, H., H. Riege, E.J.N. Wilson, J. Handerek and K. Zioutas, Fast polarization changes in ferroelectrics and their application in accelerators ... A280 (1989) 1
Gunten, H.P.v., see Böhm, A. ... A273 (1988) 471
Guryn, W., see D0 Calorimeter Group ... A280 (1989) 36
Gustafsson, H.-Å., see Lavergne-Gosselin, L. ... A276 (1989) 210
Gustafsson, H.A., see Awes, T.C. ... A279 (1989) 479
Gustafsson, H.A., see Young, G.R. ... A279 (1989) 503
Gutbrod, H.H., see Albrecht, R. ... A276 (1989) 131
Gutbrod, H.H., see Awes, T.C. ... A279 (1989) 479
Gutbrod, H.H., see Young, G.R. ... A279 (1989) 503
Gutierrez, P., see Engels Jr, E. ... A279 (1989) 272
Guy, F.W., see Stovall, J.E. ... A278 (1989) 143
Guyonnet, J.L., see Arnold, R. ... A273 (1988) 466
Guzik, T.G., see Hof, M. ... A276 (1989) 628
Guzik, Z., see Filatova, N.A. ... A272 (1988) 707

Haas, C.R., see Noll, R. ... A278 (1989) 85
Haas, R., see Weyrich, K. ... A278 (1989) 52
Haba, J., see Sumiyoshi, T. ... A271 (1988) 432
Haba, J., see Homma, Y. ... A274 (1989) 183
Haber, C., see Abe, F. ... A271 (1988) 387
Haber, I., see Hafizi, B. ... A272 (1988) 392
Haber, I. and H. Rudd, Emittance growth and particle loss during intense-beam propagation in a nonlinear periodic transport system ... A278 (1989) 174
Haber, I., see Rudd, H. ... A278 (1989) 198
Haberichter, W., see Napolitano, J.J. ... A274 (1989) 152
Hachem, A., see Kouassi, M.C. ... A280 (1989) 424
Hadler, J.C., see Bigazzi, G. ... A280 (1989) 506
Hadley, N.J., see D0 Calorimeter Group ... A280 (1989) 36
Haeberli, W., see Holslin, D. ... A274 (1989) 207
Haefliger, J., see Fabbretti, R. ... A280 (1989) 13
Hafen, E.S., see Bari, G. ... A277 (1989) 11
Hafizi, B., A. Ting, P. Sprangle, C.M. Tang and I. Haber, Comparison of sideband growth in tapered and untapered free electron lasers ... A272 (1988) 392
Hafizi, B., see Sprangle, P. ... A272 (1988) 536
Hagberg, E., see Sharma, K.S. ... A275 (1989) 123
Haggerty, H., see Brown, C. ... A279 (1989) 331
Haggerty, H., see D0 Calorimeter Group ... A280 (1989) 36
Haggerty, J., see Fulton, R. ... A274 (1989) 37

Haggerty, J., see Atiya, M. ... A279 (1989) 180
Hagopian, S., see D0 Calorimeter Group ... A280 (1989) 36
Haguenauer, M., see Bourotte, J. ... A274 (1989) 129
Hahn, A.A., see Elliott, S.R. ... A273 (1988) 226
Hahn, C., see Ebel, F. ... A272 (1988) 626
Hahn, K., see Smith, L. ... A278 (1989) 191
Hahn, S.R., see Abe, F. ... A271 (1988) 387
Haight, R.C., see McClelland, J.B. ... A276 (1989) 35
Hailey, C.J., F. Harrison, J.H. Lupton and K.-P. Ziock, An inexpensive, hard X-ray imaging spectrometer for use in X-ray astronomy and atomic physics ... A276 (1989) 340
Håkansson, A., J. Blomgren, S. Crona, A. Likar, A. Lindholm, L. Nilsson, N. Olsson and R. Zorro, A large high-resolution sodium iodide spectrometer ... A273 (1988) 211
Hale, D., see Coyle, P. ... A273 (1988) 858
Hall, G., Silicon drift chambers ... A273 (1988) 559
Hall, G., see Sumner, T.J. ... A273 (1988) 701
Hall, H.L., M.J. Nurmia and D.C. Hoffman, A multiple target gas-jet system for light-ion bombardments of heavy targets (*Letter to the Editor*) ... A276 (1989) 649
Hall, S.J., see Karban, O. ... A274 (1989) 4
Hall, S.J., see Gothe, R.W. ... A276 (1989) 233
Hallewell, G., see Coyle, P. ... A273 (1988) 858
Hallgren, A., see Baillon, P. ... A277 (1989) 338
Halsall, R., see Bains, N. ... A279 (1989) 297
Hamacher, A., see Koch, H.R. ... A271 (1988) 375
Hamacher, T., see Böhm, A. ... A273 (1988) 471
Hamm, R., see Ma, H. ... A274 (1989) 113
Hampel, W., Radiochemical solar neutrino detectors and neutrino oscillations ... A271 (1988) 247
Handerek, J., see Gundel, H. ... A280 (1989) 1
Handler, R., see Abe, F. ... A271 (1988) 387
Hangarter, K., see Böhm, A. ... A273 (1988) 471
Hanisch, T., see Streubel, G. ... A274 (1989) 194
Hanna, D.S., see Boivin, L.P. ... A273 (1988) 397
Hanna, S.S., see Galovich, C.S. ... A271 (1988) 483
Hannon, A.C., see Mayers, J. ... A275 (1989) 453
Hansen, S., see Brown, C. ... A279 (1989) 331
Hansl-Kozanecka, T., see Benvenuti, A.C. ... A276 (1989) 94
Hanson, A.L., see Gigante, G.E. ... A280 (1989) 299
Hanssen, D., see Abe, F. ... A271 (1988) 387
Happer, W., see Coulter, K.P. ... A276 (1989) 29
Hara, K., see Ansari, R. ... A279 (1989) 388
Hara, T., see Bari, G. ... A277 (1989) 11
Harada, M., S. Kasai, S. Kato, T. Kitami, T. Maki, K. Maruyama, Y. Murata, K. Niki, C. Rangacharyulu and A. Sasaki, A honeycomb sandwich structure vacuum jacket for cryogenic targets ... A276 (1989) 451
Harada, M., see Endo, I. ... A280 (1989) 144
Harder, G., see ARGUS Collaboration ... A275 (1989) 1
Härdi, E., see L3 Collaboration ... A275 (1989) 71
Harding, A., see Ophel, T.R. ... A272 (1988) 734
Harding, G. and J. Kosanetzky, Scattered X-ray beam nondestructive testing ... A280 (1989) 517
Hardy, J.C., see Sharma, K.S. ... A275 (1989) 123
Hardy, W.C., see Karban, O. ... A274 (1989) 4
Hargrove, C.K., see Roney, J.M. ... A279 (1989) 236
Haridas, P., see Bari, G. ... A277 (1989) 11
Harigel, G.G., see E-632 Collaboration ... A279 (1989) 249
Harihar, P., W.J. Stapor and A.B. Campbell, Rise time spectroscopy of nuclear radiations in stilbene ... A272 (1988) 763
Harms, A.A., S. Ghose and T.A. Parish, Panel 3: Critical engineering issues of aneutronic reactor for space, terrestrial, and naval applications ... A271 (1988) 225
Harnew, N., G.P. Heath, M.D. Jeffs, J. Nash, G.L. Salmon, P.D. Shield, D.J. White and F.F. Wilson, Vertex triggering using time difference measurements in the ZEUS Central Tracking Detector ... A279 (1989) 290
Harper, P.K.S., see Skinner, G.K. ... A273 (1988) 682
Harper, R.W., see Durkin, L.S. ... A277 (1989) 386
Harris, R.M., see Abe, F. ... A271 (1988) 387
Harrison, F., see Hailey, C.J. ... A276 (1989) 340

Harrison, K., see Angelini, C. ... A277 (1989) 132
Hart, G.W., see Cousins, R.D. ... A277 (1989) 517
Hartemann, F., K. Xu and G. Bekefi, Pulse compression in a free electron laser amplifier ... A272 (1988) 125
Harting, D., see Duinker, P. ... A273 (1988) 814
Hartjes, F., see Duinker, P. ... A273 (1988) 814
Hartjes, F., see Konijn, J. ... A276 (1989) 582
Hartjes, F.G., see Adeva, B. ... A277 (1989) 187
Hartjes, F.G. and R. Wigmans, Scintillating plastic fibres for hadron calorimetry ... A277 (1989) 379
Hartjes, F.G., see Desalvo, R. ... A279 (1989) 467
Hartman, K., see Engels Jr, E. ... A279 (1989) 272
Hartmann, F.J., see Durner, P. ... A278 (1989) 484
Hartung, W., see Shu, Q.S. ... A278 (1989) 329
Hartz, P., see Braunschweig, W. ... A275 (1989) 246
Haruta, Y., see Mitarai, S. ... A277 (1989) 491
Haruyama, T., see Doi, Y. ... A274 (1989) 95
Hasai, H., see Ohmori, C. ... A278 (1989) 705
Hasebe, N., see Yanagimachi, T. ... A275 (1989) 307
Hasegawa, K.-I., see Koike, M. ... A272 (1988) 840
Hasegawa, K.-I., see Mochiki, K.-I. ... A273 (1988) 640
Hasegawa, M., S. Mori, T. Ohsugi, H. Kojima, A. Taketani, T. Kondo and M. Noguchi, Radiation damage of silicon junction detectors by neutron irradiation ... A277 (1989) 395
Hasegawa, T., see Arvieux, J. ... A273 (1988) 48
Hasegawa, T., see Ohmori, C. ... A278 (1989) 705
Haselton, H.H., see Murphy, B.D. ... A275 (1989) 157
Hasemann, H., see ARGUS Collaboration ... A275 (1989) 1
Hashimoto, O., see Engelage, J. ... A277 (1989) 431
Hashimoto, S., see Kubota, S. ... A273 (1988) 645
Hassard, J.F., see Barber, G.J. ... A279 (1989) 212
Hastings, J.B., see Schneider, J.R. ... A276 (1989) 636
Hata, K., see Shirato, S. ... A278 (1989) 477
Hatcher, R.W., see Womersley, W.J. ... A278 (1989) 447
Hattori, T., see Watanabe, S.-I. ... A271 (1988) 359
Hattori, T., see Arai, S. ... A278 (1989) 236
Hauff, D., see Buttler, W. ... A273 (1988) 778
Hauser, J., see Abe, F. ... A271 (1988) 387
Hawkes, C.M. and P.S. Bambade, First order optical matching in the final focus section of the SLAC linear collider ... A274 (1989) 27
Hawkesworth, M.R., see Bemrose, C.R. ... A273 (1988) 874
Hawkesworth, M.R., see O'Dwyer, M.A. ... A273 (1988) 898
Hawkesworth, M.R., see Beynon, T.D. ... A273 (1988) 908
Hawkins, C.A., see Bartha, G.T. ... A275 (1989) 59
Hayashi, K., see Sumiyoshi, T. ... A271 (1988) 432
Hayashibara, I., see Amako, K. ... A272 (1988) 687
Hayashide, Y., see Abe, F. ... A271 (1988) 387
Hayashii, H., see Noguchi, S. ... A271 (1988) 404
Hayasino, T., R. Ihara, H. Itoh, K. Kodama, N. Nakazawa, M. Ohashi and Y. Yamato, Tests of a magnetic emulsion spectrometer by high energy heavy ions ... A271 (1988) 518
Hayden, R.J. and M.J. Jakobson, Shaping solenoid fields to reduce emittance degradation of polarized H^- ion beams ... A278 (1989) 394
Hayes, C., see Buttler, W. ... A277 (1989) 217
Haynes, D.L., see Jones, C.M. ... A276 (1989) 413
Hazama, M., see Aoki, S. ... A274 (1989) 64
Hazlett, T., see McKee, B.T.A. ... A272 (1988) 825
He, H.-J., T.-W. Zhang, R.-C. Shang and S.-D. Xu, A detailed study of the interaction mechanisms for Si(Li) detector response functions by the direct Monte Carlo approach ... A272 (1988) 847
Healey, D.C., see Wait, G.D. ... A274 (1989) 515
Hearty, C., see Bartha, G.T. ... A275 (1989) 59
Heath, G.P., Dead time due to trigger processing in a data acquisition system with multiple event buffering ... A278 (1989) 431
Heath, G.P., see Harnew, N. ... A279 (1989) 290
Heaton, R., H. Lee, P. Skensved and B.C. Robertson, Neutron production from thick-target (α, n) reactions ... A276 (1989) 529
Hebbinghaus, G., see Krämer-Flecken, A. ... A275 (1989) 333

Hebert, T., see Rettig, W. ... A277 (1989) 677
Hedges, S., see Damerell, C.J.S. ... A275 (1989) 484
Hedin, D., see Brown, C. ... A279 (1989) 331
Heeg, P., J. Pannicke, M. Mutterer, P. Schall, J.P. Theobald, K. Weingärtner, K.F. Hoffmann, K. Scheele, P. Zöller, G. Barreau, B. Leroux and F. Gönnenwein, The double-torus ionization chamber DIOGENES for the investigation of charged particle associated nuclear fission ... A278 (1989) 452
Heiguchi, K., see Mitarai, S. ... A277 (1989) 491
Heijne, E.H.M., see Borer, K. ... A273 (1988) 605
Heijne, E.H.M., P. Jarron, A. Olsen and N. Redaelli, The silicon micropattern detector: a dream? ... A273 (1988) 615
Heijne, E.H.M. and P. Jarron, Development of silicon pixel detectors: an introduction ... A275 (1989) 467
Heijne, E.H.M., see Ansari, R. ... A279 (1989) 388
Heil, R.D., see Wilke, W. ... A272 (1988) 785
Heimaster, J.W., see Durkin, L.S. ... A277 (1989) 386
Heimrich, B., see Jacoby, J. ... A278 (1989) 82
Heimrich, B., H. Nestle, M. Winkler, H. Wollnik, J. Jacoby, R.W. Müller and D.H.H. Hoffmann, Final focusing lenses to produce hot dense matter ... A278 (1989) 202
Heindler, M., see Feldbacher, R. ... A271 (1988) 55
Heindler, M., see Kernbichler, W. ... A271 (1988) 65
Heinson, A.P., see Barber, G.J. ... A279 (1989) 212
Heintze, J., P. Lennert, S. Polenz, B. Schmidt, W. Brückner, B. Povh and J. Spitzer, Cosmic ray tracking – A new approach to high-energy γ-astronomy ... A277 (1989) 29
Heinz, R.M., see Nutter, S.L. ... A273 (1988) 389
Heinzl, J., G. Korschinek, H. Morinaga, E. Nolte, E. Preisenberger and A. Urban, Determination of erosion rates with cosmic ray produced radioisotopes ... A271 (1988) 259
Heller, R., see ARGUS Collaboration ... A275 (1989) 1
Helliwell, J.R., see Brammer, R.C. ... A271 (1988) 678
Hemingway, R.J., see Roney, J.M. ... A279 (1989) 236
Hendel, H.W., see Ku, L.P. ... A280 (1989) 113
Henderson, D.L. and R.G. Alsmiller Jr., Preliminary one-dimensional neutronics scoping study for a californium-252 cold neutron source moderating device ... A280 (1989) 91
Heng, H.G., see Cui, M.Q. ... A277 (1989) 673
Henneck, R., see Jaskóła, M. ... A273 (1988) 441
Henniger, J., see Schmidt, P. ... A272 (1988) 875
Henniger, J., see Seifert, H. ... A275 (1989) 411
Henning, W. and D. Schüll, On isobar separation and accelerator mass spectrometry of ^{205}Pb ... A271 (1988) 324
Henning, W., see Paul, M. ... A277 (1989) 418
Henriques, A.M., see Desalvo, R. ... A279 (1989) 467
Heppener, M., see Simons, D.G. ... A273 (1988) 512
Hermsen, T., see Dattoli, G. ... A272 (1988) 351
Hermsen, T., see Gallardo, J.C. ... A272 (1988) 516
Hernandez, D., see Righetti, M.A. ... A280 (1989) 514
Hernegger, F. and A. Chalupka, Preparation of thin ^{226}Ra sources by the electro-spray technique (*Letter to the Editor*) ... A278 (1989) 611
Herring, J.R.H., see Skinner, G.K. ... A273 (1988) 682
Herrmannsfeldt, W.B., Scenarios for fusion energy ... A278 (1989) 276
Herskind, B., see Moszyński, M. ... A280 (1989) 73
Herten, U., see Böhm, A. ... A273 (1988) 471
Herten, U., see Bosseler, K. ... A277 (1989) 121
Hertrich, T., see Von Feilitzsch, F. ... A271 (1988) 332
Hervas, L., see Buttler, W. ... A277 (1989) 217
Hessberger, F.P., S. Hofmann, G. Münzenberg, K.-H. Schmidt, P. Armbruster and R. Hingmann, Influence of energy summing of α-particles and conversion electrons on the shapes of α-spectra in the region of the heaviest nuclei ... A274 (1989) 522
Hesse, M., see Coulon, J.P. ... A274 (1989) 291
Hessing, T., see Abe, F. ... A271 (1988) 387
Heuer, D., see Guinet, D. ... A278 (1989) 614
Heuring, T., see D0 Calorimeter Group ... A280 (1989) 36
Heusch, C.A., Prospects for homogeneous warm liquid calorimetry ... A279 (1989) 77
Heymann, F.F., see Aoki, S. ... A274 (1989) 64
Higón, E., see Allen, P. ... A277 (1989) 347
Hildingsson, L., see Mossberg, K. ... A278 (1989) 755

Hilgenberg, G., see Jibaly, M. ... A273 (1988) 161
Hill, D., T. Kasprzyk, J.J. Jarmer, S. Penttilä, M. Krumpolc, G.W. Hoffmann and M. Purcell, Dynamic polarization of ^{19}F in a fluorinated alcohol ... A277 (1989) 319
Hill, J.C., see Toothacker, W.S. ... A273 (1988) 97
Hill, J.C., see Carter, J.R. ... A278 (1989) 725
Hill, J.C., see Roney, J.M. ... A279 (1989) 236
Hillas, A.M., see Smith, N.J.T. ... A276 (1989) 622
Hillas, A.M., see Patterson, J.R. ... A278 (1989) 553
Hilleke, R.O., see Carpenter, J.M. ... A278 (1989) 397
Hingmann, R., see Hessberger, F.P. ... A274 (1989) 522
Hink, P.L., see Davis, A.J. ... A276 (1989) 347
Hinterberger, F., T. Mayer-Kuckuk and D. Prasuhn, Monte Carlo simulations of thin internal targets in intermediate energy proton storage rings ... A275 (1989) 239
Hinterberger, F. and D. Prasuhn, Analysis of internal target effects in light ion storage rings ... A279 (1989) 413
Hirabayashi, H., see Doi, Y. ... A274 (1989) 95
Hiramatsu, S., see Sato, H. ... A272 (1988) 617
Hiramatsu, S., see Ohmori, C. ... A278 (1989) 705
Hirao, Y., see Watanabe, S.-I. ... A271 (1988) 359
Hirosky, R., see D0 Calorimeter Group ... A280 (1989) 36
Hitachi, A., see Sano, T. ... A275 (1989) 346
Hitachi, A., see Masuda, K. ... A279 (1989) 560
Hlawatsch, G., see Lindner, H. ... A273 (1988) 444
Ho, A.H., see Fisher, A.S. ... A272 (1988) 89
Ho, D.D.-M. and S.T. Brandon, A study of heavy-ion beams during longitudinal compression using particle simulation ... A278 (1989) 182
Ho, P.-T., see Ma, K.B. ... A272 (1988) 326
Hoeberechts, A.M., Radiation sensors in Philips ... A275 (1989) 480
Hoernle, R.F.A., see Von Wimmersperg, U. ... A271 (1988) 383
Hof, M., J. Isbert, K.D. Mathis, M. Simon, T.G. Guzik, J.W. Mitchell, J.P. Wefel and H.J. Crawford, A drift chamber telescope for heavy ion track detection with high spatial resolution ... A276 (1989) 628
Hofer, H., see Chen, C. ... A272 (1988) 713
Hofer, H., see Böhm, A. ... A273 (1988) 471
Hofer, H., see L3 Collaboration ... A275 (1989) 71
Hoffman, D.C., see Hall, H.L. ... A276 (1989) 649
Hoffmann, D.H.H., see Deutsch, C. ... A278 (1989) 38
Hoffmann, D.H.H., J. Meyer-ter-Vehn, R.W. Müller, I. Hofmann, R. Bock and R. Arnold, Beam–plasma interaction experiments at GSI: an experimental program to study high energy density in matter by means of intense heavy-ion beams ... A278 (1989) 44
Hoffmann, D.H.H., see Weyrich, K. ... A278 (1989) 52
Hoffmann, D.H.H., see Jacoby, J. ... A278 (1989) 82
Hoffmann, D.H.H., see Heimrich, B. ... A278 (1989) 202
Hoffmann, G.W., see Hill, D. ... A277 (1989) 319
Hoffmann, J., see Albrecht, R. ... A276 (1989) 131
Hoffmann, K.F., see Heeg, P. ... A278 (1989) 452
Hofmann, A., see Gils, H.J. ... A276 (1989) 169
Hofmann, A., see Buttler, W. ... A277 (1989) 217
Hofmann, I., see Hoffmann, D.H.H. ... A278 (1989) 44
Hofmann, I., see Melchert, F. ... A278 (1989) 65
Hofmann, I., Rf linac and storage ring – Perspectives of heavy-ion fusion studies at GSI ... A278 (1989) 271
Hofmann, S., see Hessberger, F.P. ... A274 (1989) 522
Hofmann, W., see ARGUS Collaboration ... A275 (1989) 1
Hoftun, J.S., see D0 Calorimeter Group ... A280 (1989) 36
Hohmuth, K., see Manfrass, P. ... A273 (1988) 904
Hojyo, Y., see Homma, Y. ... A274 (1989) 183
Holl, P., see Buttler, W. ... A273 (1988) 778
Holl, P., see Gatti, E. ... A273 (1988) 865
Holl, P., see Radeka, V. ... A275 (1989) 536
Holland, A.D., see Lumb, D.H. ... A273 (1988) 696
Holland, S., Fabrication of detectors and transistors on high-resistivity silicon ... A275 (1989) 537
Hollander, R.W., see Schotanus, P. ... A272 (1988) 913
Hollander, R.W., see Schotanus, P. ... A272 (1988) 917

Hollander, R.W., see Duijn, J.H. ... A273 (1988) 541
Hollander, R.W., see Okx, W.J.C. ... A273 (1988) 544
Hollander, R.W., see Van Eijk, C.W.E. ... A273 (1988) 764
Hollander, R.W., see Schotanus, P. ... A273 (1988) 886
Hollander, R.W., see Schooneveld, E.M. ... A275 (1989) 597
Hollebeek, R., see Abe, F. ... A271 (1988) 387
Hollebeek, R.J., see Bartha, G.T. ... A275 (1989) 59
Holloway, L., see Abe, F. ... A271 (1988) 387
Holmes, R., see Kulke, B. ... A272 (1988) 241
Holslin, D., J. McAnich, J. Sromicki, P.A. Quin and W. Haeberli, New instrumental effects in fast neutron polarization measurements ... A274 (1989) 207
Holt, J.A., see Ohmori, C. ... A278 (1989) 705
Holt, R.S., see Andreani, C. ... A276 (1989) 297
Holzreuter, R., see Böhm, A. ... A273 (1988) 471
Holzreuter, R., see Robmann, P. ... A277 (1989) 368
Homma, Y., Y. Hojyo, H. Sakae, J. Haba, T. Kamitani, N. Kanematsu, Y. Nagashima, H. Osabe, S. Sakamoto, S. Sugimoto, Y. Suzuki, A. Tsukamoto, T. Uebayashi, T. Yamashita, T. Sumiyoshi and F. Takasaki, The aging effect in a conductive plastic streamer tube coated with silicone oil ... A274 (1989) 183
Honda, R.Y., see Aramaki, E.A. ... A280 (1989) 597
Honma, H., see Shidara, T. ... A279 (1989) 423
Honrubia, J.J., see Velarde, G. ... A278 (1989) 105
Hoogenboom, J.E., see Ciftcioglu, Ö. ... A278 (1989) 532
Hooke, W.M., see Robinson, H.G. ... A278 (1989) 655
Hooper, B.A., see Benson, S.V. ... A272 (1988) 22
Hooper, B.A., S.V. Benson, A. Cutolo and J.M.J. Madey, Experimental results of two stage harmonic generation with picosecond pulses on the Stanford Mark III FEL ... A272 (1988) 96
Hopkins, D.B., see Throop, A.L. ... A272 (1988) 15
Hora, H., Nonlinear effects and nonthermal plasmas ... A271 (1988) 117
Hora, H., see Christopoulos, A.S. ... A271 (1988) 178
Hora, H., see Kasotakis, G. ... A278 (1989) 110
Horáček, J., see Anisimov, Yu.S. ... A273 (1988) 731
Horiguchi, Y., see Ikeda, Y. ... A276 (1989) 183
Horikawa, N., see Ohmori, C. ... A278 (1989) 705
Horikoshi, G., see Shidara, T. ... A279 (1989) 423
Horisberger, R., see Burns, M. ... A277 (1989) 154
Horisberger, R., see Dijkstra, H. ... A277 (1989) 160
Hornkohl, J.O. and M.T. Lynch, Development of a high energy crowbar for the Los Alamos free electron laser ... A272 (1988) 227
Hornkohl, J.O., see Johnson, W.J.D. ... A272 (1988) 232
Hoshino, K., see Aoki, S. ... A274 (1989) 64
Hosticka, B., see Buttler, W. ... A277 (1989) 217
Hotchkis, M.A.C., see Woods, P.J. ... A276 (1989) 195
Hotchkis, M.A.C., see Reiff, J.E. ... A276 (1989) 228
Hu, P., see Abe, F. ... A271 (1988) 387
Hu, R.J., see Amir, A. ... A272 (1988) 174
Hu, X.C., see Guinet, D. ... A278 (1989) 614
Hu Kesong, see Su Yi ... A272 (1988) 147
Huang Sunren, see Su Yi ... A272 (1988) 147
Huang, H.H., see Bari, G. ... A277 (1989) 11
Hubbard, B., see Abe, F. ... A271 (1988) 387
Hubbard, J.R., see Ducros, Y. ... A277 (1989) 401
Hubbard, J.R., see Detœuf, J.F. ... A279 (1989) 310
Hubbeling, L., see Burns, M. ... A277 (1989) 154
Huber, J., see Braunschweig, W. ... A275 (1989) 246
Hübner, K., see Schmidt, P. ... A272 (1988) 875
Huck, A., see Guillaume, G. ... A277 (1989) 458
Hughes, P., see Angelini, C. ... A277 (1989) 132
Hughes, V.W., see Cates, G.D. ... A278 (1989) 293
Hultqvist, K., see Ansorge, R.E. ... A273 (1988) 826
Hultqvist, K., see Alitti, J. ... A279 (1989) 364
Humphries, S., see Rutkowski, H.L. ... A278 (1989) 206
Hunt, J.E., M. Salehpour, A. Ruthenberg, B. Zabransky, R. Amrein, Z. Vager, E. Kanter and D.L. Fishel, MeV

polyatomic ion beams from a dynamitron accelerator for desorption mass spectrometry studies (*Letter to the Editor*) . . . A274 (1989) 597
Hurlbut, C., see Zorn, C. . . . A271 (1988) 701
Hurlbut, C., see Zorn, C. . . . A273 (1988) 108
Hurlbut, C., see Zorn, C. . . . A276 (1989) 58
Hurst, P., see Abe, F. . . . A271 (1988) 387
Husson, D., see Bloch, D. . . . A273 (1988) 847
Huston, J., see Engels Jr, E. . . . A279 (1989) 272
Hutcheon, D., see Arvieux, J. . . . A273 (1988) 48
Huth, J., see Abe, F. . . . A271 (1988) 387
Hutsch, J., see Michel, P. . . . A273 (1988) 299
Huttel, E., see Friedrich, L. . . . A272 (1988) 906
Hwang, S-T. and K.J. Lee, Absolute neutron emission rate measurement of a ^{252}Cf source by the manganous sulfate bath method . . . A273 (1988) 381
Hyakutake, M., see Koori, N. . . . A278 (1989) 737
Hyams, B.D., see Burns, M. . . . A277 (1989) 154
Hyams, B.D., see Dijkstra, H. . . . A277 (1989) 160

Iacobucci, G., see Bari, G. . . . A277 (1989) 11
Iaselli, G., see Albrizio, R. . . . A271 (1988) 449
Iasevoli, R., see De Winter, K. . . . A277 (1989) 83
Iasevoli, R., see De Winter, K. . . . A277 (1989) 170
Iasevoli, R., see CHARM II Collaboration . . . A278 (1989) 670
Ibadov, A.Kh., see Alimov, A.S. . . . A278 (1989) 379
Ichikawa, S., T. Sekine, H. Iimura, M. Oshima and N. Takahashi, Selective mass separation of light lanthanoids by means of ionization of their monoxides . . . A274 (1989) 259
Ichimura, M., see Fujinaga, T. . . . A276 (1989) 317
Ichinose, H., see Masuda, K. . . . A279 (1989) 560
Igo, G., see Engelage, J. . . . A277 (1989) 431
Ihara, R., see Hayasino, T. . . . A271 (1988) 518
IHEP–IISN–LANL–LAPP Collaboration, D. Alde, F.G. Binon, C. Bricman, V.C. Datsko, S.V. Donskov, M. Gouanère, A.V. Inyakin, V.A. Kachanov, D.B. Kakauridze, G.V. Khaustov, E.A. Knapp, A.V. Kulik, A.A. Lednev, J.P. Peigneux, Yu.D. Prokoshkin, Yu.V. Rodnov, V.I. Rykalin, S.A. Sadovsky, V.D. Samoylenko, P.M. Shagin, A.V. Shtannikov, A.V. Singovsky, J.P. Stroot and V.P. Sugonyaev, Particle identification with a combined hodoscope calorimeter (*Letter to the Editor*) . . . A276 (1989) 652
Iida, N., see Noguchi, S. . . . A271 (1988) 404
Iimura, H., see Ichikawa, S. . . . A274 (1989) 259
Ijiri, H., see Ohgaki, H. . . . A273 (1988) 522
Ijiri, H., see Koori, N. . . . A278 (1989) 737
Ikeda, Y., K. Yoshii, S. Fujine, K. Ohkubo, H. Kobayashi, G. Matsumoto, K. Yoneda, T. Matsumoto, O. Aizawa, T. Niwa, T. Tsuruta, M. Nakazawa, A. Tsuruno and Y. Horiguchi, Fast neutron radiography tests at the Yayoi-reactor, University of Tokyo . . . A276 (1989) 183
Ikegami, K., see Sato, H. . . . A272 (1988) 617
Ikegami, K., see Mori, Y. . . . A278 (1989) 605
Ille, B., see Bakken, J.A. . . . A275 (1989) 81
Ille, B., see Bakken, J.A. . . . A280 (1989) 25
Imai, K., see Sato, H. . . . A272 (1988) 617
Imai, T., see Yanagimachi, T. . . . A275 (1989) 307
Imai, T., see Munakata, K. . . . A276 (1989) 306
Imasaki, K., see Mima, K. . . . A272 (1988) 106
Imel, D.A. and J. Thomas, Design, construction and performance of a liquid xenon and liquid argon ionization chamber . . . A273 (1988) 291
Imlay, R.L., see Durkin, L.S. . . . A277 (1989) 386
Imouk, L.N., see Merchez, F. . . . A275 (1989) 133
Imrie, D.C., see Aoki, S. . . . A274 (1989) 64
Incicchitti, A., see Belli, P. . . . A276 (1989) 656
Innocente, M., see DELPHI Forward ElectroMagnetic Group . . . A279 (1989) 473
Innocente, V., see Bourotte, J. . . . A274 (1989) 129
Innocente, V., see Adeva, B. . . . A277 (1989) 187
Inoue, N., see Bari, G. . . . A277 (1989) 11
Inyakin, A.V., see IHEP–IISN–LANL–LAPP Collaboration . . . A276 (1989) 652

Ippoliti, A., see Cilloco, F. ... A276 (1989) 401
Irmscher, D., see Gothe, R.W. ... A276 (1989) 233
Irwin, G.M., see Cousins, R.D. ... A277 (1989) 517
Isabelle, D.B., see Mouadili, A. ... A280 (1989) 485
Isakovich, K., see Cates, G.D. ... A278 (1989) 293
Isbert, J., see Hof, M. ... A276 (1989) 628
Ishida, Y., see Ohmori, C. ... A278 (1989) 705
Ishihara, M., see Motobayashi, T. ... A271 (1988) 491
Ishii, Y., see Kawamura, T. ... A275 (1989) 462
Ishikawa, Y., see Mitarai, S. ... A277 (1989) 491
Ishimoto, S., see Doi, Y. ... A274 (1989) 95
Ishimoto, S., see Ohmori, C. ... A278 (1989) 705
Ishkhanov, B.S., see Alimov, A.S. ... A278 (1989) 379
Islam, M.S., P.B. Corn, R.N. Boyd, K.E. Sale and G.J. Mathews, A convenient technique to make uniform polyethylene foils (*Letter to the Editor*) ... A276 (1989) 647
ISOCELE Collaboration, P. Kilcher, J. Sauvage, A. Wojtasiewicz, J. Munsch, J. Obert, A. Caruette, A. Ferro, G. Boissier, J. Fournet-Fayas, M. Ducourtieux, G. Landois, R. Sellem and D. Sznajderman, Very low energy conversion electron detection system at the ISOCELE on-line separator, Orsay ... A274 (1989) 485
Isokane, Y., see Aoki, S. ... A274 (1989) 64
Isozumi, Y., Effects of nuclear decay on atomic electron rearrangements ... A280 (1989) 151
Isozumi, Y., see Katano, R. ... A280 (1989) 285
Israel, M.H., see Davis, A.J. ... A276 (1989) 347
Italiani, M., see Bari, G. ... A277 (1989) 11
Italiani, M., see Alpat, B. ... A277 (1989) 260
Italiani, M., see Cartwright, S. ... A277 (1989) 269
Ito, A.S., see D0 Calorimeter Group ... A280 (1989) 36
Ito, M., see Abe, F. ... A271 (1988) 387
Ito, M., see Atiya, M. ... A279 (1989) 180
Itoh, F., see Shiotani, N. ... A275 (1989) 447
Itoh, H., see Hayasino, T. ... A271 (1988) 518
Itoh, K., see Shin, Y.M. ... A274 (1989) 227
Iturbe, J.T., Alpha-particle spectrum of ^{219}Rn and its daughters from pitchblende samples using silicon surface-barrier detectors (*Letter to the Editor*) ... A274 (1989) 404
Ivanenko, A.I., see Yeremin, A.V. ... A274 (1989) 528
Ivanov, A.B., see Anisimov, Yu.S. ... A273 (1988) 731
Ivaşcu, M., see Vlad, M. ... A274 (1989) 613
Iwasa, N., see Kubota, S. ... A273 (1988) 645
Iwata, T., see Ohmori, C. ... A278 (1989) 705
Iwatani, K., see Ohmori, C. ... A278 (1989) 705
Iyer, S.S., see Shihomatsu, H.M. ... A280 (1989) 488
Izycki, M., see Petković, T. ... A273 (1988) 833

Jacholkowska, A., see Braunschweig, W. ... A275 (1989) 246
Jacholkowski, A., see WA76 Collaboration ... A274 (1989) 165
Jackson, G., see Mane, S.R. ... A276 (1989) 8
Jacobs, C., see CP-LEAR Collaboration ... A279 (1989) 285
Jacoby, J., see Weyrich, K. ... A278 (1989) 52
Jacoby, J., R.W. Müller, D.H.H. Hoffmann, H. Wahl, K. Weyrich, B. Heimrich, M. Winkler, H. Wollnik and S. Maurmann, RFQ-experiments with intense heavy-ion beams ... A278 (1989) 82
Jacoby, J., see Heimrich, B. ... A278 (1989) 202
Jäger, H.M., see Krämer-Flecken, A. ... A275 (1989) 333
Jahoda, K. and D. McCammon, Proportional counters as low energy photon detectors ... A272 (1988) 800
Jaiswal, D.D., see Sunta, C.M. ... A280 (1989) 449
Jakobson, M.J., see Hayden, R.J. ... A278 (1989) 394
Jakobsson, B., see Lavergne-Gosselin, L. ... A276 (1989) 210
James, A.N., see Woods, P.J. ... A276 (1989) 195
Janković, S., The Allchar Tl–As–Sb deposit, Yugoslavia and its specific metallogenic features ... A271 (1988) 286
Jänsch, H.J., see Luck, W.S. ... A278 (1989) 375
Jänsch, H.J., see Völk, H.-G. ... A279 (1989) 443
Jared, R., see Fulton, R. ... A274 (1989) 37
Jarmer, J.J., see Hill, D. ... A277 (1989) 319

Jarron, P., see Borer, K. ... A273 (1988) 605
Jarron, P., see Heijne, E.H.M. ... A273 (1988) 615
Jarron, P., see Heijne, E.H.M. ... A275 (1989) 467
Jarron, P., see Ansari, R. ... A279 (1989) 388
Jaske, J., see Abe, F. ... A271 (1988) 387
Jaskóła, M., P. Egelhof, R. Henneck, H. Mühry, I. Sick and D. Vetterli, Precision measurement of target position during irradiation (*Letter to the Editor*) ... A273 (1988) 441
Jeanney, C., see Ansorge, R.E. ... A273 (1988) 826
Jeckelmann, B., see Moromisato, J.H. ... A274 (1989) 177
Jeckelmann, B., see Bari, G. ... A277 (1989) 11
Jeffery, D.R.N., see Llewellyn, T.J. ... A273 (1988) 869
Jeffs, M.D., see Harnew, N. ... A279 (1989) 290
Jelitto, H., see Gils, H.J. ... A276 (1989) 169
Jemanov, V., see CHARM II Collaboration ... A278 (1989) 670
Jemanov, V., see Artamonov, A. ... A279 (1989) 531
Jensen, H., see Abe, F. ... A271 (1988) 387
Jerby, E. and A. Gover, A linear three-dimensional model for free electron laser amplifiers ... A272 (1988) 380
Jerby, E., The axial-velocity distribution function and the longitudinal susceptibility of an e-beam in a planar wiggler FEL ... A272 (1988) 457
Jernigan, J.G., see Shapiro, S.L. ... A275 (1989) 580
Jesus, A.P. and J.P. Ribeiro, M-subshell ionization of U by light-ion bombardment ... A280 (1989) 370
Ji, G., see Bari, G. ... A277 (1989) 11
Jibaly, M., P. Chrusch Jr, G. Hilgenberg, S. Majewski, R. Wojcik, R. Weintraub and F. Sauli, Some results on the ageing of wire chambers with dimethyl ether ... A273 (1988) 161
Jimack, M.P., see Bains, N. ... A279 (1989) 297
Jiménez-Domínguez, H., H. Flores-Llamas, A. Cabral-Prieto and A. Bravo-Ortega, A simple relationship between the Voigt integral and the plasma dispersion function. Additional methods to estimate the Voigt integral (*Letter to the Editor*) ... A278 (1989) 625
Jin, B.N., see L3 Collaboration ... A275 (1989) 71
Jin, E., see Artusi, G. ... A279 (1989) 523
Jing, C., see Bari, G. ... A277 (1989) 11
Jing, G., see Bari, G. ... A277 (1989) 11
Job, P.K., G. Sterzenbach and D. Filges, Parameter studies with the electromagnetic shower code EGS4 for the electron response of a thin layer sampling calorimeter containing uranium ... A271 (1988) 442
Johansson, S., see Dijkstra, H. ... A277 (1989) 160
Johnson, A., see Lidén, F. ... A273 (1988) 240
Johnson, A.S., see Bartha, G.T. ... A275 (1989) 59
Johnson, B.C., see Penner, S. ... A272 (1988) 73
Johnson, J., see Cartwright, S. ... A277 (1989) 269
Johnson, J.R., see Benvenuti, A.C. ... A276 (1989) 94
Johnson, J.W., see Awes, T.C. ... A279 (1989) 479
Johnson, J.W., see Young, G.R. ... A279 (1989) 503
Johnson, M.E., see Droege, T.F. ... A279 (1989) 359
Johnson, M.E., see D0 Calorimeter Group ... A280 (1989) 36
Johnson, R., see Coyle, P. ... A273 (1988) 858
Johnson, R.M., see Rutkowski, H.L. ... A278 (1989) 206
Johnson, R.P., see Abe, F. ... A271 (1988) 387
Johnson, R.W., see McClelland, J.B. ... A276 (1989) 35
Johnson, W.J.D., M.T. Lynch, P.J. Tallerico, D.R. Keffeler and J.O. Hornkohl, High-power rf-pulsed modulators for the Los Alamos free electron laser ... A272 (1988) 232
Johnstone, C., see Engels Jr, E. ... A279 (1989) 272
Jonckheere, A.M., see D0 Calorimeter Group ... A280 (1989) 36
Jones, A.A., see Droege, T.F. ... A279 (1989) 359
Jones, C.H., see Bradley, D.A. ... A280 (1989) 380
Jones, C.M., D.L. Haynes, R.C. Juras, M.J. Meigs, N.F. Ziegler, J.E. Raatz and R.D. Rathmell, Improved voltage performance of the Oak Ridge 25URC tandem accelerator ... A276 (1989) 413
Jones, K.W., see Barlow, D.B. ... A271 (1988) 471
Jones, L.W., see Chen, C. ... A272 (1988) 713
Jones, L.W., see L3 Collaboration ... A275 (1989) 71
Jones, R., see Fulton, R. ... A274 (1989) 37
Jones, T., Positron emission tomography ... A273 (1988) 455

Jong, R.A., see Throop, A.L. ... A272 (1988) 15
Jong, R.A., E.T. Scharlemann and W.M. Fawley, Wiggler taper optimization for free electron laser amplifiers with moderate space-charge effects ... A272 (1988) 99
Jonker, M.J., see Bartha, G.T. ... A275 (1989) 59
Jonson, B., see Bäcklund, Y. ... A279 (1989) 555
Jönsson, L., see ARGUS Collaboration ... A275 (1989) 1
Josa, M.I., see Begalli, M. ... A276 (1989) 105
Joseph, C., see Bay, A. ... A271 (1988) 497
Joshi, U., see Abe, F. ... A271 (1988) 387
Joshi, U., see Engels Jr, E. ... A279 (1989) 272
Jöstlein, H., see Brown, C. ... A279 (1989) 331
Jourde, D., see Aleksan, R. ... A273 (1988) 303
Jovanovic, P., see Bains, N. ... A279 (1989) 297
Joyce, D., J.-P. Merlo, K. Morgan, D. Smith, L. Baumard, V. Vuillemin, M. Pimia, J. Ellison, I. Siotis, L. Taylor, P. Allport, P. Seller, J. Stanton and M. Tyndel, Silicon detector tests with the RAL microplex readout chip ... A279 (1989) 189
Judge, S.M., see Woods, S.A. ... A272 (1988) 924
Juillot, P., see Bloch, D. ... A273 (1988) 847
Junior, P. and H. Deitinghoff, Improved formulae for beam currents and phase advances in RFQ linacs ... A278 (1989) 233
Juras, R.C., see Jones, C.M. ... A276 (1989) 413

Kaaret, P., see Bakken, J.A. ... A275 (1989) 81
Kaaret, P., see Bakken, J.A. ... A280 (1989) 25
Kabachenko, A.P., see Yeremin, A.V. ... A274 (1989) 528
Kabat, D., see Biller, S.D. ... A276 (1989) 144
Kachanov, V.A., see IHEP–IISN–LANL–LAPP Collaboration ... A276 (1989) 652
Kadel, R.W., see Abe, F. ... A271 (1988) 387
Kadota, S., see Engelage, J. ... A277 (1989) 431
Kadyk, J., see Fulton, R. ... A274 (1989) 37
Kadyrov, R.B., see Filatova, N.A. ... A272 (1988) 707
Kadyrov, R.B., see Filatova, N.A. ... A279 (1989) 518
Kafka, D.Benjamin.T., see Oliver, W.P. ... A276 (1989) 371
Kageyama, Y., see Kubo, H. ... A280 (1989) 133
Kahalas, S.L., Overview of the USA inertial fusion program ... A278 (1989) 31
Kahane, J., see WA76 Collaboration ... A274 (1989) 165
Kahn, S., see D0 Calorimeter Group ... A280 (1989) 36
Kajfasz, E., see Aleksan, R. ... A273 (1988) 303
Kajfasz, E., see Aleksan, R. ... A274 (1989) 203
Kajfasz, E., see Ait-Boubker, S. ... A277 (1989) 461
Kakauridze, D.B., see IHEP–IISN–LANL–LAPP Collaboration ... A276 (1989) 652
Kalkanis, G., W. Klempt and E. Rosso, The DELPHI barrel RICH electrostatic configuration tests ... A275 (1989) 267
Kalmus, G., see Burns, M. ... A277 (1989) 154
Kalmus, G., see Dijkstra, H. ... A277 (1989) 160
Kalvius, G.M., see Adlassnig, W. ... A277 (1989) 485
Kamermans, R., see Van Melle, J.C.C. ... A277 (1989) 584
Kamitani, T., see Sumiyoshi, T. ... A271 (1988) 432
Kamitani, T., see Homma, Y. ... A274 (1989) 183
Kamon, T., see Abe, F. ... A271 (1988) 387
Kamp, D., see ARGUS Collaboration ... A275 (1989) 1
Kampwirth, R.T., see Gabutti, A. ... A278 (1989) 425
Kamyshkov, Yu., see L3 Collaboration ... A275 (1989) 71
Kan, H., see Suzuki, Y. ... A275 (1989) 142
Kanda, S., see Abe, F. ... A271 (1988) 387
Kaneda, T. and K. Niu, A theoretical analysis of the propagation of ion beams in ICF ... A278 (1989) 99
Kanekal, S., see Toothacker, W.S. ... A273 (1988) 97
Kanekal, S., see ARGUS Collaboration ... A275 (1989) 1
Kanematsu, N., see Sumiyoshi, T. ... A271 (1988) 432
Kanematsu, N., see Homma, Y. ... A274 (1989) 183
Kang, K.-J., see Wang, J.-J. ... A280 (1989) 95
Kantele, J., A quick method of obtaining the electronic factors Ω_K, Ω_{L1} and Ω_{LII} for E0 transitions ... A271 (1988) 625
Kantele, J., A simplified method for computing K internal-conversion coefficients for E1, E2, E3, M1, M2 and M3 transitions from tabulated values ... A275 (1989) 149

Kanter, E., see Hunt, J.E. A274 (1989) 597
Kapitza, H., see ARGUS Collaboration A275 (1989) 1
Kaplan, D., see Brown, C. A279 (1989) 331
Kaplan, D.H., see Davis, A.J. A276 (1989) 347
Kaplan, S.N., see Perez-Mendez, V. A273 (1988) 127
Kaplan, S.N., I. Fujieda, V. Perez-Mendez, S. Qureshi, W. Ward and R.A. Street, Detection of minimum-ionizing particles in hydrogenated amorphous silicon A273 (1988) 611
Kapoor, V., see Engels Jr, E. A279 (1989) 272
Karageorge, G., see Beck, D. A277 (1989) 323
Karar, A., see Equer, B. A271 (1988) 574
Karar, A., see Equer, B. A275 (1989) 558
Karas', V.I., V.A. Kiyashko, E.A. Kornilov and Ya.B. Fainberg, Theoretical and experimental investigations of a neutralized ion induction linac for inertial confinement fusion A278 (1989) 245
Karas', V.I., V.V. Mukhin and A.M. Naboka, Ion beam space-charge neutralization and acceleration in structures with magnetic insulation A278 (1989) 247
Karban, O., W.C. Hardy, K.A. Connell, S.E. Darden, C.O. Blyth, H.D. Choi, S.J. Hall, S. Roman and G. Tungate, The polarized heavy ion source at the NSF in Daresbury A274 (1989) 4
Karle, W., M. Knopp and K.-H. Speidel, Applications of large barium fluoride scintillators to in-beam gamma-ray spectroscopy A271 (1988) 507
Karliner, I., see Abe, F. A271 (1988) 387
Karlsson, E., see Kulsrud, R. A271 (1988) 222
Karolak, M., see Chianelli, C. A273 (1988) 245
Karp, J.S., D.A. Mankoff and G. Muehllehner, A position-sensitive detector for use in positron emission tomography A273 (1988) 891
Karyotakis, Y., see Bakken, J.A. A275 (1989) 81
Karyotakis, Y., see Bakken, J.A. A280 (1989) 25
Kasahara, K., see Bourotte, J. A274 (1989) 129
Kasai, S., see Harada, M. A276 (1989) 451
Kasai, S., see Endo, I. A280 (1989) 144
Kashiwagi, T., see Bourotte, J. A274 (1989) 129
Kashiwagi, T., see Yanagimachi, T. A275 (1989) 307
Kasotakis, G., L. Cicchitelli, H. Hora and R.J. Stening, Volume ignition in pellet fusion A278 (1989) 110
Kasprzyk, T., see Hill, D. A277 (1989) 319
Katano, R., T. Fujii, T. Kobayashi, K. Fukumura and Y. Isozumi, Cryogenic resonance-electron Mössbauer spectroscopy with a helium-filled proportional counter A280 (1989) 285
Katayama, T., see Watanabe, S.-I. A271 (1988) 359
Kato, S., see Harada, M. A276 (1989) 451
Katvars, S.G., see Ansorge, R.E. A273 (1988) 826
Katvars, S.G., B.T. McCluskey and J.M. Pentney, A Fastbus digitiser for the UA2 scintillating fibre detector .. A276 (1989) 482
Kaučić, S., see Ljubičić, A. A271 (1988) 262
Kaučić, S., see Dobrinić, J. A280 (1989) 384
Kautzky, H., see Abe, F. A271 (1988) 387
Kavanagh, R.W., see Seuthe, S. A272 (1988) 814
Kawai, T., M. Utsuro, Y. Maeda, T. Ebisawa, T. Akiyoshi, H. Yamaoka and S. Okamoto, Self-regulating characteristics of a cold neutron source with a closed-thermosiphon A276 (1989) 408
Kawamura, T., S. Maeyama, M. Oshima, Y. Ishii and T. Miyahara, Solid surface analysis beamline with a grating/crystal monochromator at the photon factory (*Letter to the Editor*) A275 (1989) 462
Kawarasaki, Y., M. Ohkubo, N. Shikazono and K. Mashiko, Linac for a free electron laser oscillator: design consideration on the injector system A272 (1988) 206
Kawase, Y., see Uehara, S.-I. A276 (1989) 543
Kawashima, Y., Y. Watanabe and T. Yamazaki, A new analog detection system with target-imaging capability for μSR measurements in a pulsed muon beam A274 (1989) 241
Kawata, H., see Shiotani, N. A275 (1989) 447
Kaway, T., see Aoki, S. A274 (1989) 64
Kazlauskis, K., see Abe, F. A271 (1988) 387
Kazuno, M., see Aoki, S. A274 (1989) 64
Kearns, E., see Abe, F. A271 (1988) 387
Keefe, D., see Meuth, H. A278 (1989) 153
Keefe, D., Induction linac drivers: prospects for the future A278 (1989) 266
Keffeler, D.R., see Johnson, W.J.D. A272 (1988) 232
Kehne, D., K. Low, M. Reiser, T. Shea, C.R. Chang and Y. Chen, Experimental studies of electron beam

transport in the Maryland periodic solenoid channel . . . A278 (1989) 194
Kehne, D., see Rudd, H. . . . A278 (1989) 198
Kekez, D., see Dobrinić, J. . . . A280 (1989) 384
Kekre, H.B., V.K. Madan and B.R. Bairi, A Fourier transform method for the selection of a smoothing interval . A279 (1989) 596
Keller, J.G., see Paul, M. . . . A277 (1989) 418
Keller, L., see Bartha, G.T. . . . A275 (1989) 59
Kellie, J.D., see Gothe, R.W. . . . A276 (1989) 233
Kellogg, R.G., see Artusi, G. . . . A279 (1989) 523
Kells, W.P., Trapping low energy antiprotons from the FNAL accumulator . . . A276 (1989) 117
Kemmer, J. and G. Lutz, New structures for position sensitive semiconductor detectors . . . A273 (1988) 588
Kemmer, J., see Gatti, E. . . . A273 (1988) 865
Kemmer, J., see Radeka, V. . . . A275 (1989) 536
Kendall, H.W., see Benvenuti, A.C. . . . A276 (1989) 94
Kendall, H.W., see Womersley, W.J. . . . A278 (1989) 447
Kennedy, P., see Bhowmik, A. . . . A272 (1988) 524
Kenney, R.W., see Alston-Garnjost, M. . . . A271 (1988) 475
Kenney, V.P., see Toothacker, W.S. . . . A273 (1988) 97
Kenyon, I.R., see Bains, N. . . . A279 (1989) 297
Kephart, R., see Abe, F. . . . A271 (1988) 387
Kerboul, C., see Arvieux, J. . . . A273 (1988) 48
Kerek, A., see Lidén, F. . . . A273 (1988) 240
Kerek, A., see CPLEAR Collaboration . . . A279 (1989) 305
Kernbichler, W. and M. Heindler, Neutron-lean fusion reactor studies for thermal plasmas . . . A271 (1988) 65
Kerth, L.T., see Clark, A.R. . . . A279 (1989) 243
Kessel, R., see Lapington, J.S. . . . A273 (1988) 663
Kessler, M., see Dubbers, D. . . . A275 (1989) 294
Kessler, R.S., S.D. Adrian, D.B. Barlow, P. DiBernardo, A.D. Eichon, B.M.K. Nefkens, C. Pillai, J.W. Price, J.A. Wightman, W.J. Briscoe, L.H. Kramer, M.F. Taragin and D.F. Ottewell, Calibration of neutron counters from 83 to 290 MeV . . . A275 (1989) 285
Kesteman, J., see Daubie, E. . . . A273 (1988) 553
Kesten, P., see Abe, F. . . . A271 (1988) 387
Keutelian, H., see Abe, F. . . . A271 (1988) 387
Kewley, D., see D0 Calorimeter Group . . . A280 (1989) 36
Khaichukov, F.F., see Bari, G. . . . A277 (1989) 11
Kharakh, D., see Benvenuti, A.C. . . . A276 (1989) 94
Khaustov, G.V., see IHEP–IISN–LANL–LAPP Collaboration . . . A276 (1989) 652
Kho, T.H. and A.T. Lin, Wiggler-enhanced electron cyclotron autoresonance maser . . . A272 (1988) 574
Khovansky, V., see De Winter, K. . . . A277 (1989) 83
Khovansky, V., see De Winter, K. . . . A277 (1989) 170
Khovansky, V., see CHARM II Collaboration . . . A278 (1989) 670
Khovansky, V., see Artamonov, A. . . . A279 (1989) 531
Kielmann, F., see Amir, A. . . . A272 (1988) 174
Kiener, J., see Gils, H.J. . . . A276 (1989) 169
Kienle, P., Studies of radioactive decays of completely ionized nuclei in a heavy ion storage ring . . . A271 (1988) 277
Kiesewetter, J., see Brinkmann, K.-Th. . . . A276 (1989) 557
Kiesling, C., see Braunschweig, W. . . . A275 (1989) 246
Kikuchi, J., see Bourotte, J. . . . A274 (1989) 129
Kikuchi, J., see Yanagimachi, T. . . . A275 (1989) 307
Kikuchi, J., see Sano, T. . . . A275 (1989) 346
Kikuchi, J., see Masuda, K. . . . A279 (1989) 560
Kikuchi, Y., see Abe, F. . . . A271 (1988) 387
Kilcher, P., see ISOCELE Collaboration . . . A274 (1989) 485
Kim, D.H., see Cates, G.D. . . . A278 (1989) 293
Kim, J., Foil activation measurements of energy and flux of neutrons from D–T mixed beams driven into a target . . . A274 (1989) 425
Kim, K.-J., Rf and space-charge effects in laser-driven rf electron guns . . . A275 (1989) 201
Kim, P.C.H., see ARGUS Collaboration . . . A275 (1989) 1
Kim, S., see Abe, F. . . . A271 (1988) 387
Kim, Y.D., see Murakami, T. . . . A275 (1989) 112
Kimel, I. and L.R. Elias, Long-pulse FELs as sources of monochromatic radiation . . . A272 (1988) 368
Kimura, T., see Furuno, K. . . . A277 (1989) 286

Kinashi, T., see Ohmori, C. A278 (1989) 705
King, A., see CHARM II Collaboration A278 (1989) 670
King, N.S.P., see McClelland, J.B. A276 (1989) 35
Kinoshita, K., A fast hardware trigger for charged particles in multilayer tracking devices A276 (1989) 242
Kinson, J.B., see WA76 Collaboration A274 (1989) 165
Kinson, J.B., see Angelini, C. A277 (1989) 132
Kipper, A., see Schempp, A. A278 (1989) 169
Kirchgessner, J., see Shu, Q.S. A278 (1989) 329
Kirk, A., see WA76 Collaboration A274 (1989) 165
Kirk, P.N., see Engelage, J. A277 (1989) 431
Kirkby, J., see Destruel, P. A276 (1989) 69
Kirsch, L., see Abe, F. A271 (1988) 387
Kirschfink, F.J., see Braunschweig, W. A275 (1989) 246
Kirsten, T., Status of radiochemical solar neutrino detectors A271 (1988) 253
Kissel, L., see Roy, S.C. A280 (1989) 198
Kistiakowsky, V., see Womersley, W.J. A278 (1989) 447
Kitagawa, Y., see Mima, K. A272 (1988) 106
Kitami, T., see Harada, M. A276 (1989) 451
Kitamura, T., see Matsuno, S. A276 (1989) 359
Kitamura, T., see Bari, G. A277 (1989) 11
Kiyashko, V.A., see Karas', V.I. A278 (1989) 245
Kiyashko, V.A., E.A. Kornilov and V.A. Vinokurov, Acceleration of high-current ion beams in the induction linac A278 (1989) 249
Kiyashko, V.A., see Gorban', A.M. A278 (1989) 251
Klabunde, J., see Spädtke, P. A278 (1989) 643
Klamra, W., see Mossberg, K. A278 (1989) 755
Klanner, R., see ZEUS Calorimeter Group A274 (1989) 134
Klanner, R., see Dwurażny, A. A277 (1989) 176
Klanner, R., see Buttler, W. A277 (1989) 217
Klär, H., M. Schulz, P. Steffen and D. Düllmann, The flash-TDC (*Letter to the Editor*) A275 (1989) 197
Klär, H., see Bürger, J. A279 (1989) 217
Klarmann, J., see Davis, A.J. A276 (1989) 347
Klein, H., see Wojke, R.G.C. A273 (1989) 21
Klein, H., see Cub, J. A274 (1989) 217
Klein, H., see Urbanus, W.H. A276 (1989) 433
Klein, H., see Leipe, P. A278 (1989) 213
Klein, H., see Gerhard, A. A278 (1989) 220
Klein, H., see Weis, T. A278 (1989) 224
Klein, H., see Wojke, R.G.C. A278 (1989) 318
Klempt, W., see Kalkanis, G. A275 (1989) 267
Klimenko, S.G., see Blinov, A.E. A273 (1988) 31
Klimenko, S.V., see Akopyan, M.V. A272 (1988) 855
Klimentov, A., see L3 Collaboration A275 (1989) 71
Kliwer, J., Møller scattering and the measurement of beta-ray longitudinal polarization A277 (1989) 473
Klok, P., see Bakken, J.A. A275 (1989) 81
Klok, P., see Bakken, J.A.* A280 (1989) 25
Klopf, P. and W. Stüber, A linear mixer and shape normalizer for 50 μs tail pulses A276 (1989) 595
Klopfenstein, C., see Clark, A.R. A279 (1989) 243
Klopfenstein, C., see D0 Calorimeter Group A280 (1989) 36
Knapp, E.A., see IHEP–IISN–LANL–LAPP Collaboration A276 (1989) 652
Kneissl, U., see Wilke, W. A272 (1988) 785
Knoops, E., see De Winter, K. A277 (1989) 83
Knoops, E., see De Winter, K. A277 (1989) 170
Knoops, E., see CHARM II Collaboration A278 (1989) 670
Knopp, M., see Karle, W. A271 (1988) 507
Kňourek, J., see Anisimov, Yu.S. A273 (1988) 731
Knudsen, P., see Moszyński, M. A280 (1989) 73
Koang, D.H., see Ait-Boubker, S. A277 (1989) 461
Kobayashi, H., see Ikeda, Y. A276 (1989) 183
Kobayashi, M., see Aoki, S. A274 (1989) 64
Kobayashi, M., see Chiba, M. A276 (1989) 122

Kobayashi, S., see Abe, F. ... A271 (1988) 387
Kobayashi, T., see Ninomiya, M. ... A272 (1988) 727
Kobayashi, T., see Katano, R. ... A280 (1989) 285
Kobayashi, Y., see Ohmori, C. ... A278 (1989) 705
Köble, T., F. Meyer, M. Ockenfels, J. Weltz, W. Von Witsch and G. Wollmann, The influence of convection on high-pressure gas target densities (*Letter to the Editor*) ... A275 (1989) 460
Köbschall, G., see Richter, A.W. ... A274 (1989) 249
Koch, H.R., G. Riepe, A. Hamacher, J. Pfeiffer, O.W.B. Schult, A. Nakach, M. Olivier, A. Dewald and P. Von Brentano, Thin ribbons as internal targets in storage rings ... A271 (1988) 375
Koch, H.R., see Borchert, G.L. ... A274 (1989) 507
Koch, J., see Robmann, P. ... A277 (1989) 368
Koch, W., see Dwurażny, A. ... A277 (1989) 176
Kocharev, G.E., see Bari, G. ... A277 (1989) 11
Kochocki, J., see Oliver, W.P. ... A276 (1989) 371
Kodama, K., see Hayasino, T. ... A271 (1988) 518
Kodama, K., see Aoki, S. ... A274 (1989) 64
Koelewijn, W., see Urbanus, W.H. ... A278 (1989) 339
Kohno, T., see Yanagimachi, T. ... A275 (1989) 307
Kohno, T., see Munakata, K. ... A276 (1989) 306
Koike, M. and K.-I. Hasegawa, A digital divider with extension bits for position-sensitive detectors ... A272 (1988) 840
Koike, M., see Chiba, M. ... A276 (1989) 122
Kojima, H., see Hasegawa, M. ... A277 (1989) 395
Kokkas, P., see CPLEAR Collaboration ... A279 (1989) 305
Kokubu, T., see Shirato, S. ... A278 (1989) 477
Kolachev, G.M., see Blinov, A.E. ... A273 (1988) 31
Kolb, B.W., see Albrecht, R. ... A276 (1989) 131
Kolb, B.W., see Awes, T.C. ... A279 (1989) 479
Kolkowski, P. and T.B. Ryves, The escape of recoils from neutron-bombarded foils ... A276 (1989) 539
Koller, M., see L3 Collaboration ... A275 (1989) 71
Kolltveit, K., see Lien, J.R. ... A271 (1988) 693
Komatsubara, T., see Furuno, K. ... A277 (1989) 286
Kondo, K., see Abe, F. ... A271 (1988) 387
Kondo, K., see Takada, Y. ... A273 (1988) 410
Kondo, T., see Hasegawa, M. ... A277 (1989) 395
König, A.C., see Adeva, B. ... A277 (1989) 187
Konigsberg, J., see Cousins, R.D. ... A277 (1989) 517
Konijn, J. and F. Hartjes, Electron drift velocity close to a sense wire ... A276 (1989) 582
Kononenko, W., see D0 Calorimeter Group ... A280 (1989) 36
Koopstra, J., see Duinker, P. ... A273 (1988) 814
Koori, N., see Ohgaki, H. ... A273 (1988) 522
Koori, N., M. Hyakutake, M. Matoba, H. Ijiri, Y. Fujita, Y. Uozumi, S. Shirato, T. Motobayashi, T. Ohsawa and K. Sagara, High resolution measurement of protons emitted from medium-energy neutron induced reactions by means of a magnetic spectrograph ... A278 (1989) 737
Kopf, U., see Albrecht, R. ... A276 (1989) 131
Korbel, K., see Dabrowski, W. ... A271 (1988) 585
Korbel, K., see Dabrowski, W. ... A276 (1989) 270
Korbel, V., see Braunschweig, W. ... A275 (1989) 246
Kordyasz, A.J., see Lavergne-Gosselin, L. ... A276 (1989) 210
Korneenkov, V.A., see Alimov, A.S. ... A278 (1989) 379
Kornelyuk, Yu., see Artamonov, A. ... A279 (1989) 531
Kornilov, E.A., see Karas', V.I. ... A278 (1989) 245
Kornilov, E.A., see Kiyashko, V.A. ... A278 (1989) 249
Kornilov, E.A., see Gorban', A.M. ... A278 (1989) 251
Korolkova, E.V., see Bari, G. ... A277 (1989) 11
Korsch, W., see Völk, H.-G. ... A279 (1989) 443
Korschinek, G., see Heinzl, J. ... A271 (1988) 259
Korschinek, G., see Preisenberger, E. ... A271 (1988) 266
Korschinek, G., J. Sellmair, A. Urban and M. Müller, A study of different ion sources for use in the ^{205}Pb experiment ... A271 (1988) 328
Korschinek, G., see Sellmair, J. ... A278 (1989) 651
Kortboyer, S.W., J.B. Goedkoop, F.M.F. De Groot, M. Grioni, J.C. Fuggle and H. Petersen, Experimental

resolution in soft X-ray monochromators ... A275 (1989) 435
Kortchaguin, P.V., see Bari, G. ... A277 (1989) 11
Kortchaguin, V.B., see Bari, G. ... A277 (1989) 11
Kosanetzky, J., see Harding, G. ... A280 (1989) 517
Koshkarev, D.G., Some aspects of heavy-ion thermonuclear fusion research in ITEP ... A278 (1989) 4
Koshkarev, D.G., see Balabayev, A.N. ... A278 (1989) 148
Koska, W., see Fulton, R. ... A274 (1989) 37
Koska, W., see Bonvicini, G. ... A277 (1989) 297
Koska, W., see Bowden, G. ... A278 (1989) 664
Koskinas, M.F. and M.S. Dias, A coincidence system for radionuclide standardization using surface barrier detectors ... A280 (1989) 327
Koslowsky, V.T., see Sharma, K.S. ... A275 (1989) 123
Köster, M., see Neldner, K. ... A274 (1989) 419
Kostkina, T.B., see Zhigunov, V.P. ... A273 (1988) 362
Kostov, L.K., see Petkov, P. ... A271 (1988) 617
Kostova, L.G., see Petkov, P. ... A271 (1988) 617
Kotcher, J., see D0 Calorimeter Group ... A280 (1989) 36
Kötz, U., see ZEUS Calorimeter Group ... A274 (1989) 134
Kötz, U., see Dwurażny, A. ... A277 (1989) 176
Kötz, U., see Buttler, W. ... A277 (1989) 217
Kouassi, M.C., A. Hachem, C. Ardisson and G. Ardisson, Excited levels in ^{213}Po and ^{209}Pb fed by β-decays of ^{213}Bi ($T_{1/2}$ = 45.6 min) and ^{209}Tl ($T_{1/2}$ = 2.2 min) ... A280 (1989) 424
Koudijs, R., see Urbanus, W.H. ... A278 (1989) 339
Kourbanis, I., see Engels Jr, E. ... A279 (1989) 272
Kourlas, J., see D0 Calorimeter Group ... A280 (1989) 36
Koutsenko, V., see L3 Collaboration ... A275 (1989) 71
Kowald, W., see Toothacker, W.S. ... A273 (1988) 97
Kowalski, S.B., see Cates, G.D. ... A278 (1989) 293
Kowalski, T.Z., A. Smith and A. Peacock, Fano factor implications from gas scintillation proportional counter measurements ... A279 (1989) 567
Kox, S., see Merchez, F. ... A275 (1989) 133
Kozanecki, W., see Fulton, R. ... A274 (1989) 37
Kozma, P., see Yanovsky, V. ... A276 (1989) 659
Kraan, W.H., J.B. Van Tricht and M.Th. Rekveldt, Neutron Larmor precession transmission experiments ... A276 (1989) 521
Kramer, L.H., see Kessler, R.S. ... A275 (1989) 285
Kramer, T., see Brown, C. ... A279 (1989) 331
Krämer-Flecken, A., T. Morek, R.M. Lieder, W. Gast, G. Hebbinghaus, H.M. Jäger and W. Urban, Use of DCO ratios for spin determination in γ–γ coincidence measurements ... A275 (1989) 333
Kraner, H.W., Z. Li and K.U. Posnecker, Fast neutron damage in silicon detectors ... A279 (1989) 266
Kraus, H., see Von Feilitzsch, F. ... A271 (1988) 832
Kraus, H., see Pröbst, F. ... A280 (1989) 251
Krčmar, M., see Ljubičić, A. ... A271 (1988) 262
Kreischer, K.E., see Throop, A.L. ... A272 (1988) 15
Krider, J., see Crittenden, R. ... A276 (1989) 643
Krider, J., Residual gas beam profile monitor ... A278 (1989) 660
Krinsky, S., see Yu, L.-H. ... A272 (1988) 436
Krisch, J., see Gils, H.J. ... A276 (1989) 151
Kristiansson, A., see Lavergne-Gosselin, L. ... A276 (1989) 210
Kristiansson, P., see Albrecht, R. ... A276 (1989) 131
Krivicich, J.M., see Alston-Garnjost, M. ... A271 (1988) 475
Krmpotić, Dj., see Aničin, I.V. ... A271 (1988) 264
Krolzig, A., see ARGUS Collaboration ... A275 (1989) 1
Krötz, W., see Ulrich, A. ... A278 (1989) 72
Krüger, J., see ZEUS Calorimeter Group ... A274 (1989) 134
Krumpolc, M., see Hill, D. ... A277 (1989) 319
Krupinski, W., see Burns, M. ... A277 (1989) 154
Krupinski, W., see Dijkstra, H. ... A277 (1989) 160
Krupinski, W., see Dwurażny, A. ... A277 (1989) 176
Kruse, U., see Abe, F. ... A271 (1988) 387
Krylov, V., see L3 Collaboration ... A275 (1989) 71
Ku, L.P., H.W. Hendel and S.L. Liew, Calculation of the absolute detection efficiency of a moderated ^{235}U

neutron detector on the tokamak fusion test reactor ... A280 (1989) 113
Kuang, Y., see Dong, Qi ... A280 (1989) 189
Kubic, J., see Cousins, R.D. ... A277 (1989) 517
Kubica, B., see Deutsch, C. ... A278 (1989) 38
Kubischta, W., see Gatti, E. ... A273 (1988) 865
Kubo, H., Y. Kageyama and A. Perec, An electronics circuit for a pulsed adsorbed dose calorimeter ... A280 (1989) 133
Kubota, S., H. Murakami, J.-Z. Ruan(Gen), N. Iwasa, S. Sakuragi and S. Hashimoto, The new scintillation material CsI and its application to position sensitive detectors ... A273 (1988) 645
Kubota, Y. and C. O'Grady, Performance of a light flasher system for a prototype CsI calorimeter and the design for CLEO II ... A279 (1989) 73
Kucewicz, W., see Burns, M. ... A277 (1989) 154
Kückes, M., see Anton, G. ... A274 (1989) 222
Kudo, K., see Brede, H.J. ... A274 (1989) 332
Kudryavtsev, V.A., see Bari, G. ... A277 (1989) 11
Kuhlmann, S.E., see Abe, F. ... A271 (1988) 387
Kuhn, A., see L3 Collaboration ... A275 (1989) 71
Kukoč, A.H., see Aničin, I.V. ... A271 (1988) 264
Kulessa, R., see Matulewicz, T. ... A274 (1989) 501
Kulik, A.V., see IHEP–IISN–LANL–LAPP Collaboration ... A276 (1989) 652
Kulinich, P.A., see Antipov, Yu.M. ... A274 (1989) 452
Kulipanov, G.N., see Aristov, V.V. ... A274 (1989) 390
Kulka, Z., see Cennini, P. ... A279 (1989) 350
Kulke, B., H. Shay, F. Coffield and R. Holmes, A compact beam position monitor for use inside a free electron laser wiggler ... A272 (1988) 241
Kull, H.J. and R.C. Arnold, Rayleigh–Taylor instability: design of an experiment for a heavy-ion-heated plasma at GSI ... A278 (1989) 135
Kulsrud, R., H. Berk, C. Ferro-Fontan, E. Karlsson and F. Mills, Panel 2: Critical physics issues of aneutronic migma reactor ... A271 (1988) 222
Kulsrud, R.M., Application of polarized nuclei and advanced fuel fusion ... A271 (1988) 4
Kumabe, I., see Ueno, A. ... A271 (1988) 343
Kumabe, I., see Nishikawa, M. ... A278 (1989) 525
Kumar, A., see Vylet, V. ... A271 (1988) 607
Kumar, B. and B.P. Singh, A new approach for automatic count rate stabilization (*Letter to the Editor*) ... A274 (1989) 406
Kumar, K.S., see Cates, G.D. ... A278 (1989) 293
Kunin, A., see L3 Collaboration ... A275 (1989) 71
Kunori, S., see Brown, C. ... A279 (1989) 331
Kunze, H., see Weyrich, K. ... A278 (1989) 52
Kunze, H., see Noll, R. ... A278 (1989) 85
Kuo, C.-L., see Moini, H. ... A280 (1989) 137
Kuo, S.P., see Whang, M.H. ... A272 (1988) 477
Kurbatov, V.S., see Chernov, N.I. ... A274 (1989) 547
Kuroda, K., S. Sillou and F. Takeutchi, Comments on some publications concerning fine grid dynode PMTs (*Letter to the Editor*) ... A274 (1989) 409
Kuroda, K., see Agoritsas, V. ... A277 (1989) 237
Kuroda, K., A new trend in photomultiplier techniques and its implications in future collider experiments ... A277 (1989) 242
Kuroyanagi, T., see Mitarai, S. ... A277 (1989) 491
Kuruma, S., see Mima, K. ... A272 (1988) 106
Kurvinen, K., see Laakso, M. ... A273 (1988) 525
Kurz, M., see Gerhard, A. ... A278 (1989) 220
Kurz, R., R. Reinartz, S. Widdau, J. Schelten, A. Scholz and W. Schäfer, Two-dimensional neutron detector based on a position-sensitive photomultiplier ... A273 (1988) 273
Kutschera, W., see Paul, M. ... A277 (1989) 418
Kutschke, R., see ARGUS Collaboration ... A275 (1989) 1
Kutsenko, V., see Chen, C. ... A272 (1988) 713
Kuykens, H.J.P. and S.A. Audet, A 3 × 3 silicon drift chamber array for application in an electronic collimator ... A273 (1988) 570
Kuzmin, E.S., see Budyashova, S.Yu. ... A277 (1989) 304
Kuzminov, V.V., A.A. Pomansky and V.L. Chihladze, New possibilities for the geochemical ^{81}Br–^{81}Kr solar neutrino experiment ... A271 (1988) 257
Kwak, N., see Toothacker, W.S. ... A273 (1988) 97
Kwak, N., see ARGUS Collaboration ... A275 (1989) 1
Kwon, Y.J., see Coyle, P. ... A273 (1988) 858

Kyberd, P., see Carter, J.R. A278 (1989) 725

L3 Collaboration, A. Arefiev, T. Azemoon, U. Bachmann, R.C. Ball, W.E. Böhlen, M. Capell, C. Chen, H.S. Chen, M. Chumakov, Yu. Galaktionov, S. Goldfarb, A. Gordeev, Yu. Gorodkov, E. Härdi, H. Hofer, B.N. Jin, L.W. Jones, Yu. Kamyshkov, A. Klimentov, M. Koller, V. Koutsenko, V. Krylov, A. Kuhn, A. Kunin, P. Lecomte, P. LeCoultre, H.T. Li, X.G. Li, X. Lou, Y.S. Lu, A. Malinin, V. Markizov, G.B. Mills, V. Morgunov, A. Nikitin, V. Plyaskin, V. Pojidaev, B.P. Roe, A. Savin, P. Schär, S. Shevchenko, V. Shevchenko, K. Shmakov, V. Shoutko, E. Shumilov, B. Spiess, X.W. Tang, E. Tarkovsky, V. Tchudakov, S.C.C. Ting, K.L. Tung, J. Ulbricht, I. Vetlitsky, I. Vorobiev, J.H. Wang, R.J. Wu, K.S. Yang, S.Y. Zhang and H.L. Zhuang, Proportional chambers for the barrel hadron calorimeter of the L3 experiment A275 (1989) 71
La Padula, C., see Court, A.J. A273 (1988) 706
La Sala, J.E., D.A.G. Deacon and J.M.J. Madey, Optical guiding measurements on the Mark III free electron laser oscillator A272 (1988) 141
Laakso, I., see Bari, G. A277 (1989) 11
Laakso, M., K. Kurvinen and R. Orava, Developments in plastic wire chambers operated in the limited streamer mode (LSM detectors) A273 (1988) 525
Laasanen, A.T., see Abe, F. A271 (1988) 387
Labbe, R.H., see Bhowmik, A. A272 (1988) 524
Labov, S.E., see Silver, E.H. A277 (1989) 657
Lacava, F., see UA1 Experiment A279 (1989) 169
Lacotte, J.C., see Chollet, F. A277 (1989) 497
Lacotte, J.C., see Aubert, B. A279 (1989) 126
Lacotte, J.C., see UA1 Experiment A279 (1989) 169
Lagrange, J.M., M. Pautrat, J.S. Dionisio, Ch. Vieu and J. Vanhorenbeeck, Spectroscopic study of short lived, high spin isomers through the recoil method A271 (1988) 527
Lam, N., see Scharer, J. A272 (1988) 289
Lamade, G., see Drees, A. A273 (1988) 793
Lamanna, E., see Angelini, C. A277 (1989) 132
Lamarche, F., see SICAPO Collaboration A279 (1989) 57
Lamarche, F., see SICAPO Collaboration A279 (1989) 66
Lamb, W., see Brammer, R.C. A271 (1988) 678
Lampert, M.O., see Lavergne-Gosselin, L. A276 (1989) 210
Lanaro, A., see Engels Jr, E. A279 (1989) 272
Lanceri, L., see Checchia, P. A275 (1989) 49
Lanceri, L., see DELPHI Forward ElectroMagnetic Group A279 (1989) 473
Landi, G., see Bari, G. A277 (1989) 11
Landis, D., see Silver, E.H. A277 (1989) 657
Landois, G., see ISOCELE Collaboration A274 (1989) 485
Landon, M., see Bains, N. A279 (1989) 297
Lang, T.F., see Reiff, J.E. A276 (1989) 228
Langbein, K., see Leipe, P. A278 (1989) 213
Langbein, K., The plasma beam ion source A278 (1989) 228
Langdon, A.B., R.O. Bangerter and D.A. Liberman, Photoionization of beam ions A278 (1989) 68
Langer, S., see Ebel, F. A272 (1988) 626
Langerveld, D., see Bloch, D. A273 (1988) 847
Lanzano, S., see Bourotte, J. A274 (1989) 129
Lanzano, S., see Adeva, B. A277 (1989) 187
Lapington, J.S., D.M. Walton and H.E. Schwarz, The performance of the Penning gas imager A273 (1988) 506
Lapington, J.S., R. Kessel and D.M. Walton, Spatial resolution limitations of microchannel plate/conductive charge division readout devices A273 (1988) 663
Lariccia, P., see Ansari, R. A279 (1989) 388
Larrea, A., A. Morales, J. Morales, R. Nuñez-Lagos, J. Puimedon and J.A. Villar, Simulation of complex detection systems in neutrinoless double beta decay experiments A273 (1988) 218
Larsen, D.R., see Durkin, L.S. A277 (1989) 386
Larsen, I.L., M.M. Chiles and C. Miller, Development and fabrication of an in situ Cherenkov radiation detector A279 (1989) 665
Larsen, R.S., see Wang, J.-J. A280 (1989) 95
Lasota, M.M.B., see Carter, J.R. A278 (1989) 725
Lässer, R., see Borchert, G.L. A274 (1989) 507
Last, J., see Dubbers, D. A275 (1989) 294
Latham, P.E., see Granatstein, V.L. A272 (1988) 110

Latham, P.E., An FEL driven by transverse gradients in the wiggler field ... A272 (1988) 442
Lattore, S., see Camin, D.V. ... A279 (1989) 195
Latyshev, S.V., see Balabayev, A.N. ... A278 (1989) 148
Lau, K., see Braunschweig, W. ... A275 (1989) 246
Lau, K., see Bari, G. ... A277 (1989) 11
Lauranto, H., see Aarnio, P.A. ... A276 (1989) 608
Laurelli, P., see Albrizio, R. ... A271 (1988) 449
Laurelli, P., see Baldini-Celio, R. ... A280 (1989) 45
Laurikainen, P., see Eerola, P. ... A273 (1988) 841
Lavergne-Gosselin, L., L. Stab, M.O. Lampert, H.-Å. Gustafsson, B. Jakobsson, A. Kristiansson, A. Oskarsson, M. Westenius, A.J. Kordyasz, K. Aleklett, L. Westerberg, M. Rydehell and O. Tengblad, On the use of thin ion implanted Si detectors in heavy ion experiments ... A276 (1989) 210
Lawrence, R.T., see Forsyth, J.B. ... A273 (1988) 741
Lawson, J.D., Whither heavy-ion fusion? ... A278 (1989) 22
Layman, R., see Walsh, J. ... A272 (1988) 132
Lazutin, E.V., see Alimov, A.S. ... A278 (1989) 379
Le Duff, J., see Boussoukaya, M. ... A279 (1989) 405
Le Gac, R., see Coc, A. ... A271 (1988) 512
Leach, D.D., see Connolly, R.C. ... A273 (1988) 40
Learned, J.G., see Matsuno, S. ... A276 (1989) 359
Leavitt, C.P., see Alston-Garnjost, M. ... A271 (1988) 475
Lebedev, A.A., see Akopyan, M.V. ... A272 (1988) 855
Leblanc, M., C. Raymond, H. Tricoire and L. Valentin, SOFI: a scintillating optical fiber imager ... A273 (1988) 583
Leblond, B., see Boussoukaya, M. ... A279 (1989) 405
Lebrun, P., see Bakken, J.A. ... A275 (1989) 81
Lebrun, P., see Bakken, J.A. ... A280 (1989) 25
Lecomte, P., see Chen, C. ... A272 (1988) 713
Lecomte, P., see L3 Collaboration ... A275 (1989) 71
Lecomte, R., C. Martel and C. Carrier, Status of BGO-avalanche photodiode detectors for spectroscopic and timing measurements ... A278 (1989) 585
Lecomte, R., see Carrier, C. ... A278 (1989) 622
Lecoq, J., see Chollet, F. ... A277 (1989) 497
Lecoq, P., see Bakken, J.A. ... A275 (1989) 81
Lecoq, P., see Bakken, J.A. ... A280 (1989) 25
LeCoultre, P., see Chen, C. ... A272 (1988) 713
LeCoultre, P., see L3 Collaboration ... A275 (1989) 71
Lednev, A.A., see IHEP–IISN–LANL–LAPP Collaboration ... A276 (1989) 652
Lee, C-J., see Chung, C. ... A273 (1988) 436
Lee, C.T., Double-coherent-state description of a one-particle FEL ... A272 (1988) 330
Lee, E.P., Achromatic beam combiner and bend system for ILSE ... A278 (1989) 178
Lee, H., see Heaton, R. ... A276 (1989) 529
Lee, I.Y., see Awes, T.C. ... A279 (1989) 479
Lee, I.Y., see Young, G.R. ... A279 (1989) 503
Lee, J.R., see Artusi, G. ... A279 (1989) 523
Lee, K.J., see Hwang, S-T. ... A273 (1988) 381
Lefebvre, M., see Ansorge, R.E. ... A273 (1988) 826
Lefebvre, M., see Alitti, J. ... A279 (1989) 364
LeGoff, J.M., see Adeva, B. ... A277 (1989) 187
LeGrand, A.D., W. Schildkamp and B. Blank, An ultrafast mechanical shutter for X-rays ... A275 (1989) 442
Lehmann, A., see Gils, H.J. ... A276 (1989) 169
Lehmann, J., see Bamberger, A. ... A277 (1989) 46
Lehtihet, H.E. and C.A. Quarles, Double atomic-field bremsstrahlung from thick targets ... A280 (1989) 202
Lei, F., see Dean, A.J. ... A273 (1988) 711
Leidheiser Jr, H., see Szeles, Cs. ... A271 (1988) 688
Leipe, P., K. Langbein, H. Deitinghof, H. Klein and A. Schempp, Acceleration of intense proton beam with split coaxial four-rod RFQ ... A278 (1989) 213
Leiste, R., see Böhm, A. ... A273 (1988) 471
Leith, D., see Coyle, P. ... A273 (1988) 858
Leitner, R., see Antipov, Yu.M. ... A274 (1989) 452
Lelli, V., see Antipov, Yu.M. ... A274 (1989) 452
Lellouch, D., see Braunschweig, W. ... A275 (1989) 246

Lemeilleur, F., see Ferri, G. ... A273 (1988) 123
Lemeilleur, F., see SICAPO Collaboration ... A279 (1989) 66
Lenglet, W.J.M., see Orlić, I. ... A276 (1989) 202
Lennert, P., see Heintze, J. ... A277 (1989) 29
Lenti, V., see WA76 Collaboration ... A274 (1989) 165
Leo, M., R.A. Leo, G. Mancarella, G. Soliani and M. Pusterla, The problem of painting in the injection into circular accelerators: a general analytical approach ... A278 (1989) 629
Leo, R.A., see Leo, M. ... A278 (1989) 629
Leroux, B., see Heeg, P. ... A278 (1989) 452
Leroy, C., see SICAPO Collaboration ... A279 (1989) 57
Leroy, C., see SICAPO Collaboration ... A279 (1989) 66
Leroy, C., see Borchi, E. ... A279 (1989) 277
Leruste, Ph., see WA76 Collaboration ... A274 (1989) 165
Leske, R.A., P. Meyer, D. Ruffolo, C. Smith and M.E. Wiedenbeck, Isotopic identification of energetic heavy nuclei using dE/dx vs total energy in a high pressure gas ionization detector ... A277 (1989) 627
Lesko, K.T., see Napolitano, J.J. ... A274 (1989) 152
Leucker, H., see Völk, H.-G. ... A279 (1989) 443
Leutz, H., see Destruel, P. ... A276 (1989) 69
Leutz, H., see Angelini, C. ... A277 (1989) 132
Levman, G., see ZEUS Calorimeter Group ... A274 (1989) 134
Levush, B., see Granatstein, V.L. ... A272 (1988) 110
Levush, B. and T.M. Antonsen, Jr, Regions of stability of FEL oscillators ... A272 (1988) 375
Levush, B., see Antonsen, Jr, T.M. ... A272 (1988) 472
Lewis, H.W., see Robinson, H.G. ... A278 (1989) 655
Lewis, R., I. Sumner, A. Berry, J. Bordas, A. Gabriel, G. Mant, B. Parker, K. Roberts and J. Worgan, Multiwire X-ray detector systems at the Daresbury SRS ... A273 (1988) 773
Lewis, R.A., see Toothacker, W.S. ... A273 (1988) 97
Leytens, X., see Duinker, P. ... A273 (1988) 814
Li, D.-M., see Chen, M.-B. ... A278 (1989) 402
Li, D.-M., see Chen, M.-B. ... A278 (1989) 409
Li, H.T., see Chen, C. ... A272 (1988) 713
Li, H.T., see L3 Collaboration ... A275 (1989) 71
Li, J., see Adeva, B. ... A277 (1989) 187
Li, L., see Fabbretti, R. ... A280 (1989) 13
Li, P.J., see Bakken, J.A. ... A275 (1989) 81
Li, P.J., see Bakken, J.A. ... A280 (1989) 25
Li, W., see Abe, F. ... A271 (1988) 387
Li, X.G., see Chen, C. ... A272 (1988) 713
Li, X.G., see L3 Collaboration ... A275 (1989) 71
Li, Z., see Kraner, H.W. ... A279 (1989) 266
Li Zhenrong, see Su Yi ... A272 (1988) 147
Liberali, V., see Buttler, W. ... A279 (1989) 204
Liberman, D.A., see Langdon, A.B. ... A278 (1989) 68
Libert, J., Détermination du taux de comptage en amont de deux temps morts classiques en série et de types différents ... A274 (1989) 319
Libonate, S., see D0 Calorimeter Group ... A280 (1989) 36
Lidén, F., A. Johnson, A. Kerek, E. Dafni and M. Sidi, ERICIUS – A plastic phoswich detector array for on-line identification of evaporated protons and α-particles following HI-fusion reactions ... A273 (1988) 240
Lieder, R.M., see Krämer-Flecken, A. ... A275 (1989) 333
Liem, P.H., H. Sekimoto and E. Suetomi, Design study of graphite gas-cooled high flux reactor ... A274 (1989) 579
Lien, J.R., A. Graue and K. Kolltveit, A nuclear imaging technique for studying multiphase flow in a porous medium at oil reservoir conditions ... A271 (1988) 693
Liesen, D., see Beyer, H.F. ... A272 (1988) 895
Liesenfeld, A., see Richter, A.W. ... A274 (1989) 249
Liew, S.L., see Ku, L.P. ... A280 (1989) 113
Lightfoot, J.A. and G. Toon, A computer controlled, high performance, neutron coincidence counting system ... A271 (1988) 636
Liguori Neto, R., see Gomes, P.R.S. ... A280 (1989) 395
Likar, A., see Håkansson, A. ... A273 (1988) 211
Liljas, A., see Brammer, R.C. ... A271 (1988) 678
Limentani, S., see Gasparini, F. ... A273 (1988) 485
Lin, A.T., see Kho, T.H. ... A272 (1988) 574

Lin, R., see Cub, J. ... A274 (1989) 217
Lind, D.A., see McClelland, J.B. ... A276 (1989) 35
Lindblad, Th., see Mossberg, K. ... A278 (1989) 755
Lindgren, M., see UA1 Collaboration ... A279 (1989) 83
Lindholm, A., see Håkansson, A. ... A273 (1988) 211
Lindle, D.W., Photoionization studies of atoms and molecules using synchrotron radiation ... A280 (1989) 161
Lindner, H., H. Angerer and G. Hlawatsch, A new multiwire proportional chamber with fast single strip readout and individual analog to digital conversion (*Letter to the Editor*) ... A273 (1988) 444
Lindozzi, M., see Rindi, A. ... A272 (1988) 871
Lindroos, M., see Bäcklund, Y. ... A279 (1989) 555
Lindstroem, G., see SICAPO Collaboration ... A279 (1989) 57
Lindstrom, E., see Penner, S. ... A272 (1988) 73
Lindstrom, P.J., see Engelage, J. ... A277 (1989) 431
Ling, A. and C.A. Whitten Jr, Chamber modification to accommodate presence of an intense beam ... A275 (1989) 277
Ling, T.Y., see Durkin, L.S. ... A277 (1989) 386
Linhanata, A., see McKee, B.T.A. ... A273 (1988) 911
Linhart, J.G., Plasma liners for pellet implosions ... A278 (1989) 114
Linn, S., see D0 Calorimeter Group ... A280 (1989) 36
Linnemann, J.T., see D0 Calorimeter Group ... A280 (1989) 36
Linssen, L., see Ansorge, R.E. ... A273 (1988) 826
Linssen, L., see Alitti, J. ... A279 (1989) 364
Lintern, A.L., see Damerell, C.J.S. ... A275 (1989) 484
Lipp, F., see Braunschweig, W. ... A275 (1989) 246
Lippi, I., see Checchia, P. ... A275 (1989) 49
Lippi, I., see DELPHI Forward ElectroMagnetic Group ... A279 (1989) 473
Lippich, W., see De Winter, K. ... A277 (1989) 83
Lippich, W., see De Winter, K. ... A277 (1989) 170
Lippich, W., see CHARM II Collaboration ... A278 (1989) 670
Lipps, F., see Bari, G. ... A277 (1989) 11
Lirakis, C., see Engels Jr, E. ... A279 (1989) 272
Lisowski, B., see Borer, K. ... A273 (1988) 605
Lisowski, B., see Ansari, R. ... A279 (1989) 388
Lisowski, P., see McClelland, J.B. ... A276 (1989) 35
Liss, T., see Abe, F. ... A271 (1988) 387
Liu, L.B., see Cui, M.Q. ... A277 (1989) 673
Liu, W.P., see Yanagimachi, T. ... A275 (1989) 307
Liu, Z., see Paul, M. ... A277 (1989) 418
Liu Hongtao, see Lu Xiting ... A272 (1988) 909
Liu Jiarui, see Lu Xiting ... A272 (1988) 909
Liu Weiren, Wu Tielong, Yang Tianlu, Weng Zhenshan and Ma Youwu, An FEL project at IAE ... A272 (1988) 50
Liu Xishan, see Su Yi ... A272 (1988) 147
Ljubičić, A., M. Krčmar, S. Kaučić and B.A. Logan, Experimental determination of uranium and thorium in Allchar ore ... A271 (1988) 262
Ljubičić, A., see Dobrinić, J. ... A280 (1989) 384
Ljungfelt, S., see Petković, T. ... A273 (1988) 833
Ljunggren, K. and S.-E. Strand, Development of a digital imaging detector based on microchannel plates for biomedical samples emitting uncharged and charged particles ... A273 (1988) 784
Lleres, A., see Guinet, D. ... A278 (1989) 614
Llewellyn, T.J., R.S. Gilmore, D.R.N. Jeffery and J. Malos, High resolution and efficiency annihilation photon detection with a multi-element BGO converter and two dimensional optical readout ... A273 (1988) 869
Lloyd, S.L., see Carter, J.R. ... A278 (1989) 725
Lloyd, S.L., see Roney, J.M. ... A279 (1989) 236
Lo Bianco, G., see Boiano, C. ... A275 (1989) 329
Lobkowicz, F., see Engels Jr, E. ... A279 (1989) 272
Lobkowicz, F., see D0 Calorimeter Group ... A280 (1989) 36
Lockyer, N., see Abe, F. ... A271 (1988) 387
Loeb, H., see Christopoulos, A.S. ... A271 (1988) 178
Logan, B.A., see Ljubičić, A. ... A271 (1988) 262
Logan, B.A., Internal bremsstrahlung in electron capture and neutrino mass ... A280 (1989) 167
Logan, B.A., see Dobrinić, J. ... A280 (1989) 384
Logan, B.G., see Perkins, L.J. ... A271 (1988) 188

Lohmann, M., see Engelke, K. ... A274 (1989) 380
Lohmann, W., see Böhm, A. ... A273 (1988) 471
Loken, S., see Clark, A.F. ... A279 (1989) 243
Long, K.A., see Tahir, N.A. ... A278 (1989) 118
Longo, E., see Bakken, J.A. ... A275 (1989) 81
Longo, E., see Borgia, B. ... A279 (1989) 91
Longo, E., see Bakken, J.A. ... A280 (1989) 25
Longoni, A., see Gatti, E. ... A273 (1988) 865
Longoni, A., see Radeka, V. ... A275 (1989) 536
Looman, M., see Okx, W.J.C. ... A273 (1988) 548
Loos, A., see Albrecht, R. ... A276 (1989) 131
Loos, J.S., see Rangan, L.K. ... A276 (1989) 496
Lopes, M.I., K. Masuda and T. Doke, Estimation of the electron lifetime in tetramethylsilane ... A271 (1988) 464
Lopes, R.T., see Anjos, M.J. ... A280 (1989) 535
Lopez, A., see Checchia, P. ... A275 (1989) 49
Lopez, A., see DELPHI Forward ElectroMagnetic Group ... A279 (1989) 473
Lorazo, B., see Gascon, J. ... A278 (1989) 491
Lorenzi, R., see Artusi, G. ... A279 (1989) 523
Loreti, M., see Benvenuti, A.C. ... A276 (1989) 94
Lou, X., see L3 Collaboration ... A275 (1989) 71
Lou, Y.N., see Bassato, G. ... A275 (1989) 340
Loude, J.F., see Bay, A. ... A271 (1988) 497
Love, D.J.G. and A.H. Nelson, Unfolding the response function of high-quality germanium detectors ... A274 (1989) 541
Loverre, P.F., see De Winter, K. ... A277 (1989) 83
Loverre, P.F., see De Winter, K. ... A277 (1989) 170
Loverre, P.F., see CHARM II Collaboration ... A278 (1989) 670
Low, K., see Kehne, D. ... A278 (1989) 194
Low, K., see Rudd, H. ... A278 (1989) 198
Lowes, P., see Mels, W.A. ... A273 (1988) 689
Lu, A., see Coyle, P. ... A273 (1988) 858
Lu, Y.S., see Chen, C. ... A272 (1988) 713
Lu, Y.S., see L3 Collaboration ... A275 (1989) 71
Lu, Z., see Bari, G. ... A277 (1989) 11
Lu Chang-Guo, see Zhu Guo-Sheng ... A276 (1989) 280
Lu De, see Chi Yankun ... A274 (1989) 610
Lu Xiting, Ban Yong, Liu Hongtao, Liu Jiarui, Zheng Zhongshuang and Zhang Qichu, DSA measurement using heavy ion reactions on the small tandem accelerator (*Letter to the Editor*) ... A272 (1988) 909
Lüers, D., see Braunschweig, W. ... A275 (1989) 246
Lüke, D., see ZEUS Calorimeter Group ... A274 (1989) 134
Lütke-Stetzkamp, H.J., see Brinkmann, K.-Th. ... A276 (1989) 557
Lubell, M.S., see Cates, G.D. ... A278 (1989) 293
Lubimov, V., see ARGUS Collaboration ... A275 (1989) 1
Lucas, L.L., see Coursey, B.M. ... A279 (1989) 603
Lucas, P., see Toothacker, W.S. ... A273 (1988) 97
Luchini, P. and S. Solimeno, Variational solution of the wave equation for a high gain FEL and a finite wiggling radius ... A272 (1988) 311
Luchini, P. and H. Motz, Effects of bending on free electron laser performance ... A272 (1988) 334
Luck, W., see Völk, H.-G. ... A279 (1989) 443
Luck, W.S., D. Fick and H.J. Jänsch, A beam of thermal ^{8}Li atoms ... A278 (1989) 375
Luckey, D., see Bakken, J.A. ... A275 (1989) 81
Luckey, D., see Bakken, J.A. ... A280 (1989) 25
Lucki, G., see Sciani, V. ... A280 (1989) 564
Lue, X., see Böhm, A. ... A273 (1988) 471
Lui, Y.-W., see Utsunomiya, H. ... A278 (1989) 744
Łukasik, J., S. Micek, Z. Sosin, A. Wieloch and K. Grotowski, A simple multidetector system for intermediate mass fragments ... A274 (1989) 265
Luke, P.N., Low noise germanium radial drift detector ... A271 (1988) 567
Lukens, P., see Engels Jr, E. ... A279 (1989) 272
Lumb, D.H. and A.D. Holland, Event recognition techniques in CCD X-ray detectors for astronomy ... A273 (1988) 696
Luminari, L., see Bakken, J.A. ... A275 (1989) 81
Luminari, L., see Bakken, J.A. ... A280 (1989) 25

Lumpkin, A.H., see Carlsten, B.E. ... A272 (1988) 247
Lund, I., see Albrecht, R. ... A276 (1989) 131
Lund, J.C., F. Olschner, F. Sinclair and M.R. Squillante, Indium phosphide particle detectors for low energy solar neutrino spectroscopy ... A272 (1988) 885
Luppi, E., see Calabrese, R. ... A277 (1989) 116
Lupton, J.H., see Hailey, C.J. ... A276 (1989) 340
Lush, G.J., see Aoki, S. ... A274 (1989) 64
Lutz, G., Optimum track fitting in the presence of multiple scattering ... A273 (1988) 349
Lutz, G., see Kemmer, J. ... A273 (1988) 588
Lutz, G., see Buttler, W. ... A273 (1988) 778
Lutz, G., P.F. Manfredi, V. Re and V. Speziali, Limitations in the accuracy of detector charge measurements set by the 1/*f*-noise in the front-end amplifier ... A277 (1989) 194
Lutz, G., see Buttler, W. ... A279 (1989) 204
Lynch, M.T., see Hornkohl, J.O. ... A272 (1988) 227
Lynch, M.T., see Johnson, W.J.D. ... A272 (1988) 232
Lynch, W.G., see Murakami, T. ... A275 (1989) 112
Lyons, L. and P. Clifford, Lifetime determinations in the presence of cuts ... A274 (1989) 557
Lyons, L., see Begalli, M. ... A276 (1989) 105
Lyons, T., see Benvenuti, A.C. ... A276 (1989) 94
Lyons, T., see Womersley, W.J. ... A278 (1989) 447

Ma, H., R. Mount, H. Newman, F. Roeber, R. Zhu, H. Akbari, C.Y. Chien, A. Pevsner and R. Hamm, Calibration of the L3 BGO electromagnetic calorimeter with a radiofrequency quadrupole accelerator ... A274 (1989) 113
Ma, K.B., F. Pang and P.-T. Ho, A quantum-electronic approach to classical oscillators with periodic structures. Part I: The free electron laser ... A272 (1988) 326
Ma Youwu, see Liu Weiren ... A272 (1988) 50
Maccarrone, G., see Bari, G. ... A277 (1989) 11
Macdermott, M., see Böhm, A. ... A273 (1988) 471
MacDermott, M., see Barber, G.J. ... A279 (1989) 212
MacFarlane, D.B., see ARGUS Collaboration ... A275 (1989) 1
MacGregor, I.J.D., see Gothe, R.W. ... A276 (1989) 233
Mach, H., see Moszyński, M. ... A277 (1989) 407
Mach, H., R.L. Gill and M. Moszyński, A method for picosecond lifetime measurements for neutron-rich nuclei. (1) Outline of the method ... A280 (1989) 49
Machado, E., see CP-LEAR Collaboration ... A279 (1989) 285
Machida, M., see Aramaki, E.A. ... A280 (1989) 597
Machida, M., see Trigueiros, A. ... A280 (1989) 589
Macii, R., see SICAPO Collaboration ... A279 (1989) 57
Madan, V.K., see Kekre, H.B. ... A279 (1989) 596
Madaras, R.J., see D0 Calorimeter Group ... A280 (1989) 36
Madden, N., see Silver, E.H. ... A277 (1989) 657
Madey, J.M., see Benson, S.V. ... A272 (1988) 499
Madey, J.M.J., see Bhowmik, A. ... A272 (1988) 10
Madey, J.M.J., see Benson, S.V. ... A272 (1988) 22
Madey, J.M.J., see Carlson, K. ... A272 (1988) 92
Madey, J.M.J., see Hooper, B.A. ... A272 (1988) 96
Madey, J.M.J., see La Sala, J.E. ... A272 (1988) 141
Madey, J.M.J., see Bhowmik, A. ... A272 (1988) 183
Madey, J.M.J., see Curtin, M.S. ... A272 (1988) 187
Madey, J.M.J., see Xie, M. ... A272 (1988) 528
Madey, R., see Watson, J.W. ... A272 (1988) 750
Maeda, I., see Ohmori, C. ... A278 (1989) 705
Maeda, T., see Mitarai, S. ... A277 (1989) 491
Maeda, Y., see Aoki, S. ... A274 (1989) 64
Maeda, Y., see Kawai, T. ... A276 (1989) 408
Maehlum, G., see Olsen, A. ... A273 (1988) 565
Maehlum, G., see Burns, M. ... A277 (1989) 154
Maehlum, G., see Dijkstra, H. ... A277 (1989) 160
Maeyama, S., see Kawamura, T. ... A275 (1989) 462
Maggi, G., see Albrizio, R. ... A271 (1988) 449
Maglich, B., see Nering, J. ... A271 (1988) 155

Maglich, B.C., Time average neutralized migma: a colliding beam/plasma hybrid physical state as aneutronic energy source – A review ... A271 (1988) 13
Maglich, B.C., see Powell, C. ... A271 (1988) 41
Maglich, B.C., Speculations on a relativistic strong focusing self-collider with very high luminosity ($\geq 10^{40}$ $cm^{-2}s^{-1}$): macroproduction of antinuclei and other micro cross section events and formation of ambiplasma ... A271 (1988) 167
Maglich, B.C., see Miley, G. ... A271 (1988) 217
Magnani, M., P. Puliti and M. Stefanon, Numerical solution of the inverse problem in the analysis of neutron small angle scattering experiments ... A271 (1988) 611
Magorrian, B.G. and N.M. Allinson, Soft X-ray damage in CCD detectors ... A273 (1988) 599
Maiano, P., see Del Guerra, A. ... A273 (1988) 500
Maier, M., see Angius, S.A. ... A273 (1988) 283
Maier, M.R., see Murakami, T. ... A275 (1989) 112
Maier, M.R., see Pai, S. ... A278 (1989) 749
Mainardi, R.T. and R.A. Barrea, X-ray spectral determination by successive modifications of the beam intensity ... A280 (1989) 387
Maiolino, C., see Finocchiaro, P. ... A271 (1988) 557
Maiolino, C., see Finocchiaro, P. ... A271 (1988) 563
Maiorino, J.R., see Coelho, P.R.P. ... A280 (1989) 270
Maire, M., see Bakken, J.A. ... A280 (1989) 25
Maisheev, V.A., see Frolov, A.M. ... A280 (1989) 7
Majewski, S., see Zorn, C. ... A271 (1988) 701
Majewski, S., see Zorn, C. ... A273 (1988) 108
Majewski, S., see Jibaly, M. ... A273 (1988) 161
Majewski, S., see Zorn, C. ... A276 (1989) 58
Majewski, S., see Bowen, M. ... A276 (1989) 391
Maki, A., see Doi, Y. ... A274 (1989) 95
Maki, T., see Harada, M. ... A276 (1989) 451
Makulbekov, E.A., see Alimov, A.S. ... A278 (1989) 379
Malamant, A., see WA76 Collaboration ... A274 (1989) 165
Malamud, E., see Brown, C. ... A279 (1989) 331
Malecki, P., see Buttler, W. ... A277 (1989) 217
Malinin, A., see L3 Collaboration ... A275 (1989) 71
Mallik, C., see Dasgupta, S. ... A276 (1989) 25
Mallory, M.L. and P. Miller, Energy dependence of the $\nu_r + 2\nu_z = 3$ coupling resonance limit in a superconducting cyclotron ... A272 (1988) 645
Maloberti, F., see Buttler, W. ... A279 (1989) 204
Malos, J., see Bakich, A.M. ... A273 (1988) 853
Malos, J., see Llewellyn, T.J. ... A273 (1988) 869
Mana, C., see Adeva, B. ... A277 (1989) 187
Manabe, A., see Ninomiya, M. ... A272 (1988) 727
Mancarella, G., see Leo, M. ... A278 (1989) 629
Manceau, A., see Sainctavit, Ph. ... A273 (1988) 423
Mandache, N., see Vlad, M. ... A274 (1989) 613
Mandrichenko, I.V., see Antipov, Yu.M. ... A274 (1989) 452
Mane, S.R. and G. Jackson, Studies and calculations of transverse emittance growth in proton storage rings ... A276 (1989) 8
Manfrass, P., W. Enghardt, W.D. Fromm, D. Wohlfarth and K. Hohmuth, High-density avalanche chambers for positron emission tomography ... A273 (1988) 904
Manfredi, P.F., see Buttler, W. ... A273 (1988) 778
Manfredi, P.F., V. Re, V. Speziali and D. Marioli, Low noise design of readout electronics for microstrip vertex detectors ... A274 (1989) 477
Manfredi, P.F., see Lutz, G. ... A277 (1989) 194
Manfredi, P.F. and V. Speziali, High density monolithic front-end systems for detectors without charge multiplication ... A279 (1989) 152
Manfredi, P.F., see Buttler, W. ... A279 (1989) 204
Manfredini, A., see Aoki, S. ... A274 (1989) 64
Manfredotti, C., G. Gervino, E. Bagnolatti, U. Nastasi, R. Marchisio, L. Brunetti and E. Monticone, A power supply with temperature and N_2 level test controlled by a PC IBM-XT for a HP-Ge detector ... A271 (1988) 571
Mangeot, Ph., see Ducros, Y. ... A277 (1989) 401
Mangeot, Ph., see Detœuf, J.F. ... A279 (1989) 310
Mani, S., see Engels Jr, E. ... A279 (1989) 272
Mankoff, D.A., see Karp, J.S. ... A273 (1988) 891

Mankofsky, A., see Mark, J.W.-K. A278 (1989) 186
Mann, D., see Giorginis, G. A273 (1988) 650
Mann, W.A., see Oliver, W.P. A276 (1989) 371
Manninen, S., see Alexandropoulos, N.G. A271 (1988) 543
Mannocchi, G., see Aglietta, M. A277 (1989) 23
Mannocchi, G., see Baldini-Celio, R. A280 (1989) 45
Mannocchi, G.P., see Albrizio, R. A271 (1988) 449
Manson, S.T., Photoionization cross sections: present status and future needs A280 (1989) 173
Mansoulié, B., see Ducros, Y. A277 (1989) 401
Mansour, J., see Engels Jr, E. A279 (1989) 272
Mant, G., see Lewis, R. A273 (1988) 773
Mantovani, G., see Benvenuti, A.C. A276 (1989) 94
Mantovani, G., see Alpat, B. A277 (1989) 260
Mao, C.S., see Bari, G. A277 (1989) 11
Mao, Y.F., see Chen, C. A272 (1988) 713
Marcellini, S., see Artusi, G. A279 (1989) 523
Marchetto, F., see Abe, F. A271 (1988) 387
Marchisio, R., see Manfredotti, C. A271 (1988) 571
Marco, J., see Cuevas, J. A274 (1989) 459
Marco, J., see Checchia, P. A275 (1989) 49
Marco, J., see DELPHI Forward ElectroMagnetic Group A279 (1989) 473
Margaça, F.M.A., A.N. Falcão, J.F. Salgado and F.G. Carvalho, Design optimization of a small angle neutron scattering spectrometer (*Letter to the Editor*) A274 (1989) 606
Mariani, P., see Coppola, R. A280 (1989) 583
Marini, G., see Gasparini, F. A273 (1988) 485
Marini, G., see Aoki, S. A274 (1989) 64
Marioli, D., see Manfredi, P.F. A274 (1989) 477
Mark, J.W.-K., A. Friedman, C.-L. Chang, A. Drobot, A. Mankofsky and A. Faltens, Development of 3D simulations for heavy-ion fusion beam transport and compression problems A278 (1989) 186
Markees, A., see ARGUS Collaboration A275 (1989) 1
Markeloff, R., see Abe, F. A271 (1988) 387
Markizov, V., see L3 Collaboration A275 (1989) 71
Markosky, L.A., see Abe, F. A271 (1988) 387
Markov, A.S., see Bari, G. A277 (1989) 11
Marks, J., see Braunschweig, W. A275 (1989) 246
Marlow, K.W., see Mitchell, D.J. A276 (1989) 547
Maron, G., see Bassato, G. A275 (1989) 340
Marquardt, M., see Albrecht, R. A276 (1989) 131
Marques, A., see Gil, L.R. A280 (1989) 301
Marquina, M.A., see UA1 Collaboration A279 (1989) 114
Marradi, L., see Artusi, G. A279 (1989) 523
Marseguerra, M., Use of the spectral analysis for estimating the intensity of a weak periodic source A277 (1989) 611
Marshall, T., see Brown, C. A279 (1989) 331
Marshall, T.C., see Cai, S.Y. A272 (1988) 136
Marshall, T.C., see Yee, F.G. A272 (1988) 162
Marshall, T.C., see Cai, S.Y. A272 (1988) 481
Martel, C., see Lecomte, R. A278 (1989) 585
Martellotti, G., see Aoki, S. A274 (1989) 64
Martellotti, G., see Angelini, C. A277 (1989) 132
Marterer, W., see Durkin, L.S. A277 (1989) 386
Martin, H.J., see D0 Calorimeter Group A280 (1989) 36
Martin, I.M., see Bui Van, N.A. A280 (1989) 419
Martin, J., see ZEUS Calorimeter Group A274 (1989) 134
Martin, J.P., see Bakken, J.A. A275 (1989) 81
Martin, J.P., see Bakken, J.A. A280 (1989) 25
Martin, P., see Brown, C. A279 (1989) 331
Martin, R.L., I.S.K. Gardner, C.W. Planner and G.H. Rees, Observation of a longitudinal instability of a 70 MeV coasting beam on the ISIS accelerator A278 (1989) 151
Martin, S., see Chianelli, C. A273 (1988) 245
Martinelli, R., see Bacci, C. A273 (1988) 321
Martinelli, R., see UA1 Experiment A279 (1989) 169

Martinez, C., see DELPHI Forward ElectroMagnetic Group A279 (1989) 473
Martinez-Laso, L., see Adeva, B. A277 (1989) 187
Martínez-Val, J.M., see Velarde, G. A278 (1989) 105
Martini, M., see Calabrese, R. A277 (1989) 116
Martoff, J., see Cabrera, B. A275 (1989) 97
Maruhn, J.A., see Schneider, V. A278 (1989) 123
Marume, T., see Takada, Y. A273 (1988) 410
Maruyama, K., see Harada, M. A276 (1989) 451
Maruyama, X.K., R.B. Fiorito and D.W. Rule, Optical transition radiation as a real-time, on-line diagnostic for free electron laser systems A272 (1988) 237
Marx, M., see D0 Calorimeter Group A280 (1989) 36
Marzari-Chiesa, A., see Aoki, S. A274 (1989) 64
Mascarenhas, S., see Cesareo, R. A277 (1989) 669
Maschuw, R., see Giorginis, G. A273 (1988) 650
Masheder, M.R.W., see Fowler, P.H. A275 (1989) 175
Mashiko, K., see Kawarasaki, Y. A272 (1988) 206
Maslennikov, A., see De Winter, K. A277 (1989) 83
Maslennikov, A., see De Winter, K. A277 (1989) 170
Maslennikov, A., see CHARM II Collaboration A278 (1989) 670
Maslennikov, A., see Artamonov, A. A279 (1989) 531
Masoulié, B., see Detœuf, J.F. A279 (1989) 310
Massai, M.M., see Angelini, F. A276 (1989) 258
Massam, T., see Bari, G. A277 (1989) 11
Massaro, E. and G. Matt, An analytical approximation for the coherent scattering cross section of X- and γ-rays A271 (1988) 603
Massaro, G., see Duinker, P. A273 (1988) 814
Massaro, G.G.G., see Adeva, B. A277 (1989) 187
Massarotti, A., see Fabris, A. A273 (1988) 1
Masse, F., see Beck, D. A277 (1989) 323
Massera, F., see Artusi, G. A279 (1989) 523
Massonnet, L., see Boniface, J. A279 (1989) 376
Masuda, K., see Lopes, M.I. A271 (1988) 464
Masuda, K., see Bourotte, J. A274 (1989) 129
Masuda, K., see Sano, T. A275 (1989) 346
Masuda, K., T. Doke, A. Hitachi, H. Ichinose, J. Kikuchi, E. Shibamura and T. Takahashi, Energy resolution for alpha particles in liquid argon doped with allene A279 (1989) 560
Masullo, M.R., see Cavallo, N. A272 (1988) 64
Masuzawa, M., see Abe, F. A271 (1988) 387
Mathews, G.J., see Islam, M.S. A276 (1989) 647
Mathews, T.R., see Beynon, T.D. A273 (1988) 908
Mathieson, E. and G.C. Smith, Charge distributions in parallel plate avalanche chambers A273 (1988) 518
Mathis, K.D., see Hof, M. A276 (1989) 628
Matoba, M., see Ohgaki, H. A273 (1988) 522
Matoba, M., see Koori, N. A278 (1989) 737
Matsuda, T., see Ohmori, C. A278 (1989) 705
Matsumoto, G., see Ikeda, Y. A276 (1989) 183
Matsumoto, T. and O. Aizawa, Dose measuring system for boron neutron capture therapy A271 (1988) 662
Matsumoto, T., see Ikeda, Y. A276 (1989) 183
Matsumoto, Y., see Nishikawa, M. A278 (1989) 525
Matsuno, S., J. Babson, J.G.Learned, D. O'Connor, P.K.F. Grieder, T. Kitamura, K. Mitsui, Y. Ohashi, A. Okada, J. Clem, M. Webster and C. Wilson, Single photon light detector for deep ocean applications A276 (1989) 359
Matsuoka, M., see Munakata, K. A276 (1989) 306
Matsuoka, M., see Tatumi, S.H. A280 (1989) 510
Matt, G., see Massaro, E. A271 (1988) 603
Matteuzzi, C., see Bartha, G.T. A275 (1989) 59
Matthiesen, U., see ARGUS Collaboration A275 (1989) 1
Mattingly, M.C.K., see Toothacker, W.S. A273 (1988) 97
Mattox, J.R., The application of an image intensifier to atmospheric Cherenkov gamma ray astronomy A271 (1988) 652
Mattsson, S., see Bjurman, B. A274 (1989) 324
Matulewicz, T., E. Grosse, H. Emling, H. Grein, R. Kulessa, F.M. Baumann, G. Domogala and H. Freiesleben, Response of BaF_2, CsI(Tl) and Pb-glass detectors to neutrons below 22 MeV A274 (1989) 501

Matveev, V., see ARGUS Collaboration A275 (1989) 1
Matzke, M., see Weise, K. A280 (1989) 103
Maurenzig, P.R., see Casini, G. A277 (1989) 445
Maurmann, S., see Jacoby, J. A278 (1989) 82
May, M., Precision determination of the magnetic field in a muon storage ring using the cyclotron frequency of heavy ions – A technique for use in a new measurement of the muon g-2 value A279 (1989) 410
Mayer, R.E., see Gillette, V.H. A280 (1989) 273
Mayer-Kuckuk, T., see Hinterberger, F. A275 (1989) 239
Mayergoyz, I.D., see Granatstein, V.L. A272 (1988) 110
Mayers, J., G. Baciocco and A.C. Hannon, Temperature measurement by neutron resonance radiography A275 (1989) 453
Mayers, J., see Andreani, C. A276 (1989) 297
Mayes, B., see Bari, G. A277 (1989) 11
Mayet, N., see Bloch, D. A273 (1988) 847
Maynard, G., see Deutsch, C. A278 (1989) 38
Mazaheri, G., see Adler, J. A276 (1989) 42
Mazzoni, M.A., see Aoki, S. A274 (1989) 64
Mazzoni, S., see SICAPO Collaboration A279 (1989) 57
Mazzucato, M., see Checchia, P. A275 (1989) 49
Mazzucato, M., see Burns, M. A277 (1989) 154
Mazzucato, M., see Dijkstra, H. A277 (1989) 160
Mazzucato, M., see DELPHI Forward ElectroMagnetic Group A279 (1989) 473
McAnich, J., see Holslin, D. A274 (1989) 207
McBride, P., see Adeva, B. A277 (1989) 187
McCammon, D., see Jahoda, K. A272 (1988) 800
McCarthy, K.J., see Fryar, J. A271 (1988) 671
McCarthy, R., see D0 Calorimeter Group A280 (1989) 36
McClelland, J.B., D.A. Clark, J.L. Davis, R.C. Haight, R.W. Johnson, N.S.P. King, G.L. Morgan, L.J. Rybarcyk, J. Ullmann, P. Lisowski, W.R. Smythe, D.A. Lind, C.D. Zafiratos and J. Rapaport, Longitudinal linac beam focusing for neutron time-of-flight measurements A276 (1989) 35
McCluskey, B., see Ansorge, R.E. A273 (1988) 826
McCluskey, B.T., see Katvars, S.G. A276 (1989) 482
McConnell, M.L., see Dunphy, P.P. A274 (1989) 362
McDonald, A.B., see Coulter, K.P. A276 (1989) 29
McEachern, B., see Ford, T.D. A274 (1989) 253
McEwen, J.G., see Angelini, C. A277 (1989) 132
McGlone, V.A., A method for the energy calibration of heavy-ion beams (*Letter to the Editor*) A274 (1989) 601
McIntyre, P., see Abe, F. A271 (1988) 387
McIntyre, P.M., see DiBitonto, D. A279 (1989) 100
McKee, B.T.A., T. Goetz, T. Hazlett and L. Forkert, Performance of a 6 mm thick CdTe detector for 166 keV gamma rays A272 (1988) 825
McKee, B.T.A., A. Linhanata and A.T. Stewart, Microchannel plate detector for 0.5 MeV gamma rays A273 (1988) 911
McKenna, J.A., see ARGUS Collaboration A275 (1989) 1
McKeown, R., see Durkin, L.S. A277 (1989) 386
McKeown, R.D., see Milner, R.G. A274 (1989) 56
McLean, K.W., see ARGUS Collaboration A275 (1989) 1
McMaster, L., see Oliver, W.P. A276 (1989) 371
McMichael, G.E., see Murphy, B.D. A275 (1989) 157
McMullin, W.A., see Bhowmik, A. A272 (1988) 10
McMullin, W.A., see Curtin, M.S. A272 (1988) 187
McNally Jr, J.R., Fusion chain reaction cycles in p + ^{6}Li fuel A271 (1988) 5
McNally Jr, J.R., Anomalous temperature equilibria due to $E \times B$ drive and the nuclear dynamo A271 (1988) 146
McNally Jr, J.R., see Miley, G. A271 (1988) 217
McNeil, B.W.J., Corrections to "skewed" FEL expressions A272 (1988) 275
McNeil, B.W.J., see Bonifacio, R. A272 (1988) 280
McParland, B.J., A derivation of the electron mass scattering power for electron dose calculations A274 (1989) 592
McParland, C., see Engelage, J. A277 (1989) 431
McPherson, A.C., see Roney, J.M. A279 (1989) 236
McShurley, D., see Coyle, P. A273 (1988) 858
McVey, B.D., see Goldstein, J.C. A272 (1988) 177
McVey, B.D., see Gitomer, S.J. A272 (1988) 610
Mdebuka, A.M. and J.R. Seretlo, Stability of defects and thermoluminescence in some doped KCl crystals A280 (1989) 415

Meadows, B., see Coyle, P. ... A273 (1988) 858
Medcalf, T., M.R. Saich and J.A. Strong, A dedicated TPC track processor for the ALEPH second level trigger ... A277 (1989) 358
Meddi, F., see Aoki, S. ... A274 (1989) 64
Meddi, F., see Giubellino, P. ... A275 (1989) 89
Medley, S.S., see Cecil, F.E. ... A271 (1988) 628
Mehta, D., see Chand, B. ... A273 (1988) 310
Mehta, D.J., see Sunta, C.M. ... A280 (1989) 449
Meigs, M.J., see Jones, C.M. ... A276 (1989) 413
Meijer, R.J., see Van Melle, J.C.C. ... A277 (1989) 584
Melchert, F., E. Salzborn, I. Hofmann, R.W. Müller and V.P. Shevelko, Beam intensity losses in the storage rings of the heavy-ion intertial fusion scenario HIBALL II due to ion–ion collisions ... A278 (1989) 65
Mélèse, P.L., see Cousins, R.D. ... A277 (1989) 517
Mels, W.A., P. Lowes, H.B. Buurmans, A.C. Brinkman, A.P. Naber, A. Rook and W. Zandee, A large area position sensitive X-ray detector for astrophysical observations ... A273 (1988) 689
Menasian, S.C., Radio frequency direct conversion of migma power ... A271 (1988) 209
Meneguzzo, A.T., see UA1 Experiment ... A279 (1989) 169
Menichelli, M., see Basini, G. ... A276 (1989) 367
Menichetti, E., see Checchia, P. ... A275 (1989) 49
Menichetti, E., see DELPHI Forward ElectroMagnetic Group ... A279 (1989) 473
Menzione, A., see Abe, F. ... A271 (1988) 387
Merchez, F., S. Kox, C. Perrin, J. Mistretta, J.C. Gondrand, L.N. Imouk, P. Gretillat and E. Schwarz, EMRIC: a new setup for very small angle correlation measurements ... A275 (1989) 133
Merkel, B., see Ansorge, R.E. ... A273 (1988) 826
Merlo, J.-P., see Joyce, D. ... A279 (1989) 189
Merola, L., see Adeva, B. ... A277 (1989) 187
Meroni, C., see Burns, M. ... A277 (1989) 154
Meroni, C., see Dijkstra, H. ... A277 (1989) 160
Merritt, K.W., see D0 Calorimeter Group ... A280 (1989) 36
Merson, G.I., see Grishin, V.M. ... A274 (1989) 551
Mertz, J., see Amir, A. ... A272 (1988) 174
Messineo, A., see Albrizio, R. ... A271 (1988) 449
Messner, R., see Cartwright, S. ... A277 (1989) 269
Messner, R.L., see Benvenuti, A.C. ... A276 (1989) 94
Metcalf, W.J., see Durkin, L.S. ... A277 (1989) 386
Meuth, H., T.J. Fessenden, D. Keefe and A.I. Warwick, Accelerator research on MBE-4, an experimental multibeam induction linac ... A278 (1989) 153
Meyer, C.A., see Robmann, P. ... A277 (1989) 368
Meyer, E.A., see Rutkowski, H.L. ... A278 (1989) 206
Meyer, F., see Köble, T. ... A275 (1989) 460
Meyer, H.-J., see Baumgart, R. ... A272 (1988) 722
Meyer, H.-O., see Sperisen, F. ... A274 (1989) 604
Meyer, J., see Bürger, J. ... A279 (1989) 217
Meyer, J-P., see Alitti, J. ... A273 (1988) 135
Meyer, J-P., see Ansorge, R.E. ... A273 (1988) 826
Meyer, J-P., see Alitti, J. ... A279 (1989) 364
Meyer, P., see Leske, R.A. ... A277 (1989) 627
Meyer, T., see Abe, F. ... A271 (1988) 387
Meyer, T.C., see Beingessner, S.P. ... A272 (1988) 669
Meyer, T.C., see Beingessner, S.P. ... A279 (1989) 253
Meyer-ter-Vehn, J., Hot dense matter physics for heavy-ion fusion with GSI beams ... A278 (1989) 25
Meyer-ter-Vehn, J., see Hoffmann, D.H.H. ... A278 (1989) 44
Meylan, D., see Boniface, J. ... A279 (1989) 376
Mezi, L., see Dattoli, G. ... A272 (1988) 351
Micek, S., see Łukasik, J. ... A274 (1989) 265
Michaels, R., see Cates, G.D. ... A278 (1989) 293
Michalcová, B., see Michalec, R. ... A278 (1989) 617
Michalec, R., J. Vávra and B. Michalcová, A vibrating crystal spectrometer for the study of small angle neutron scattering (*Letter to the Editor*) ... A278 (1989) 617
Michalon, A., see Begalli, M. ... A276 (1989) 105
Michalon-Mentzer, M.E., see Begalli, M. ... A276 (1989) 105
Michel, E., see Danilov, M. ... A274 (1989) 189

Michel, E., see ARGUS Collaboration ... A275 (1989) 1
Michel, P., J. Mösner, G. Schmidt, K. Möller and J. Hutsch, Position sensitive low pressure multistep avalanche chambers for measuring neutron induced light reaction products ... A273 (1988) 299
Micke, M., see Bakken, J.A. ... A275 (1989) 81
Micke, M., see Bakken, J.A. ... A280 (1989) 25
Micke, U., see Bakken, J.A. ... A275 (1989) 81
Micke, U., see Bakken, J.A. ... A280 (1989) 25
Mikamo, S., see Abe, F. ... A271 (1988) 387
Mikheyev, S.P. and A.Yu. Smirnov, Neutrino oscillations in matter and measurement of the ν luminosity of the Sun in the past ... A271 (1988) 249
Milburn, R.H., see Oliver, W.P. ... A276 (1989) 371
Mildner, D.F.R., see Carpenter, J.M. ... A278 (1989) 397
Miley, G., Opening remarks ... A271 (1988) 1
Miley, G., H. Berk, J.R. McNally Jr and B.C. Maglich, Panel 1: Discussion of report of the Aneutronic Fusion Committee of the National Academy of Science's Air Force Studies Board ... A271 (1988) 217
Miley, G.H., see Perkins, L.J. ... A271 (1988) 188
Miley, G.H., ^{3}He sources for D–^{3}He fusion power ... A271 (1988) 197
Miley, G.H., Advanced fuels for heavy-ion beam fusion ... A278 (1989) 281
Milinković, Lj.S., K.M. Subotić and E. Fabrici, Properties of centered accelerated equilibrium orbits ... A273 (1988) 87
Milinkovic, Lj.S., E. Fabrici and K.M. Subotic, The effects of the beam centering using a first harmonic magnetic field component ... A276 (1989) 418
Miller, C., see Larsen, I.L. ... A279 (1989) 665
Miller, D.G., see Barber, G.J. ... A279 (1989) 212
Miller, D.J., see Edmends, J.S. ... A273 (1988) 145
Miller, M., see Abe, F. ... A271 (1988) 387
Miller, P., see Mallory, M.L. ... A272 (1988) 645
Miller, R., see Engels Jr, E. ... A279 (1989) 272
Miller, R.A., see Golden, J. ... A271 (1988) 79
Miller, R.A., see Emery, M. ... A271 (1988) 134
Miller, W.H., Neutron spectroscopy in the 1–30 keV energy range ... A279 (1989) 546
Miller, W.W., see Artusi, G. ... A279 (1989) 523
Mills, F., see Kulsrud, R. ... A271 (1988) 222
Mills, F.E., Status of the Fermilab antiproton source ... A271 (1988) 176
Mills, G.B., see Chen, C. ... A272 (1988) 713
Mills, G.B., see L3 Collaboration ... A275 (1989) 71
Mills, G.D., see Alton, G.D. ... A276 (1989) 388
Milner, R.G., R.D. McKeown and C.E. Woodward, A polarized ^{3}He target for nuclear physics ... A274 (1989) 56
Mima, K., Y. Kitagawa, T. Akiba, K. Imasaki, S. Kuruma, N. Ohigashi, S. Miyamoto, S. Fujita, S. Nakayama, Y. Tsunawaki, H. Motz, T. Taguchi, S. Nakai and C. Yamanaka, Experiment and theory on CO_2 laser powered wiggler and induction linac FEL ... A272 (1988) 106
Mimashi, T., see Abe, F. ... A271 (1988) 387
Min, B.J., see Mitarai, S. ... A277 (1989) 491
Min, K., see Gothe, R.W. ... A276 (1989) 233
Minakawa, F., see Aoki, S. ... A274 (1989) 64
Miné, P., J.C. Santiard, D. Scigocki, M. Suffert, S. Tavernier and G. Charpak, A BaF_2–TMAE detector for positron emission tomography ... A273 (1988) 881
Mínguez, E., see Velarde, G. ... A278 (1989) 105
Mingxiu, M., J.E. Mynard and K.G. Stephens, A high intensity Nielson ion source for multicharged ions ... A277 (1989) 279
Minorikawa, Y., see Bari, G. ... A277 (1989) 11
Minten, A., see Bonvicini, G. ... A277 (1989) 297
Miotto, A., see Pietarinen, E. ... A276 (1989) 577
Miozzi, S., see Rindi, A. ... A272 (1988) 871
Mir, R., see Adler, J. ... A276 (1989) 42
Misaki, A., see Bari, G. ... A277 (1989) 11
Miscetti, S., see Abe, F. ... A271 (1988) 387
Mishina, M., see Abe, F. ... A271 (1988) 387
Mistretta, J., see Merchez, F. ... A275 (1989) 133
Mitarai, S., K. Setoguchi, T. Maeda, Y. Haruta, H. Tomura, B.J. Min, K. Heiguchi, S. Suematsu, Y. Ishikawa, T. Kuroyanagi and K. Toyoshima, A charged particle multiplicity filter for nuclidic identification of the specific gamma rays ... A277 (1989) 491
Mitaroff, W., see Dijkstra, H. ... A277 (1989) 160

Mitchell, D.J., H.M. Sanger and K.W. Marlow, Gamma-ray response functions for scintillation and semiconductor detectors ... A276 (1989) 547
Mitchell, G.E., see Wüstenbecker, S. ... A279 (1989) 448
Mitchell, J.W., see Hof, M. ... A276 (1989) 628
Mitchell, J.W., see Durkin, L.S. ... A277 (1989) 386
Mito, T., see Doi, Y. ... A274 (1989) 95
Mitsui, K., see Matsuno, S. ... A276 (1989) 359
Mittig, W., see Bianchi, L. ... A276 (1989) 509
Miura, H., see Ohya, S. ... A276 (1989) 223
Miyahara, T., see Kawamura, T. ... A275 (1989) 462
Miyai, H., see Yamashita, Y. ... A274 (1989) 584
Miyamoto, S., see Mima, K. ... A272 (1988) 106
Miyanishi, M., see Aoki, S. ... A274 (1989) 64
Miyashita, S., see Abe, F. ... A271 (1988) 387
Miyata, H., see Abe, F. ... A271 (1988) 387
Miyata, K. and M. Nishi, New operation scheme for low emittance storage rings ... A279 (1989) 640
Mo, G.H., see Bari, G. ... A277 (1989) 11
Mochiki, K.-I., K.-I. Hasegawa and S. Namatame, Amorphous silicon position-sensitive detector ... A273 (1988) 640
Moe, M.K., see Elliott, S.R. ... A273 (1988) 226
Moffat, D., see Shu, Q.S. ... A278 (1989) 329
Mohammadi, M., see UA1 Collaboration ... A279 (1989) 83
Mohr, D., see Penner, S. ... A272 (1988) 73
Moini, H., C.-L. Kuo and J.C. Bilello, A simple concept shutter for high energy X-ray beams ... A280 (1989) 137
Moir, R.W., see Chapline, G.F. ... A271 (1988) 203
Mokhov, N., see Brown, C. ... A279 (1989) 331
Mokler, P.H., S. Reusch and Th. Stöhlker, Heavy-ion beam tailoring using dielectronic recombination ... A278 (1989) 93
Molina Avila, J., see Do Carmo Lopes, M. ... A280 (1989) 304
Molinari, V. and T. Trombetti, Range and stopping power for slowing down of electrons in matter ... A280 (1989) 226
Molinari, V.G., see Fernández, J.E. ... A280 (1989) 212
Möller, K., see Michel, P. ... A273 (1988) 299
Moltz, D.M., see Reiff, J.E. ... A276 (1989) 228
Molzon, W.R., see Cousins, R.D. ... A277 (1989) 517
Momota, H., M. Okamato, Y. Nomura, M. Ohnishi, H.L. Berk and T. Tajima, D^3He fuels in a field-reversed configuration ... A271 (1988) 7
Mondal, N., see Abe, F. ... A271 (1988) 387
Montanari, A., see Artusi, G. ... A279 (1989) 523
Montanet, F., see CPLEAR Collaboration ... A279 (1989) 305
Montanet, F., see Francke, T. ... A279 (1989) 317
Montenegro, E.C., X-rays and charge-exchange collisions ... A280 (1989) 332
Monticone, E., see Manfredotti, C. ... A271 (1988) 571
Montwill, A., see Aoki, S. ... A274 (1989) 64
Mooney, P., see D0 Calorimeter Group ... A280 (1989) 36
Moore, B., see Bourianoff, G. ... A272 (1988) 340
Moore, G.T., see Gea-Banacloche, J. ... A272 (1988) 199
Moore, G.T., The chirped-pulse free electron laser ... A272 (1988) 302
Moore, P.R., see Brammer, R.C. ... A271 (1988) 678
Morales, A., see Larrea, A. ... A273 (1988) 218
Morales, J., see Larrea, A. ... A273 (1988) 218
Morand, G., see Bakken, J.A. ... A275 (1989) 81
Morand, G., see Bakken, J.A. ... A280 (1989) 25
Morandin, M., see Gasparini, F. ... A273 (1988) 485
Morando, M., see Bassato, G. ... A275 (1989) 340
Moreau, F. and E. Barrelet, An impurity monitor for room temperature liquid ionization chambers ... A278 (1989) 417
Morek, T., see Krämer-Flecken, A. ... A275 (1989) 333
Morello, C., see Bari, G. ... A277 (1989) 11
Morello, C., see Aglietta, M. ... A277 (1989) 23
Morgan, G.L., see McClelland, J.B. ... A276 (1989) 35
Morgan, K., see Joyce, D. ... A279 (1989) 189
Morganti, S., see Bakken, J.A. ... A275 (1989) 81
Morganti, S., see Borgia, B. ... A278 (1989) 699
Morganti, S., see Bakken, J.A. ... A280 (1989) 25

Morgunov, V., see L3 Collaboration ... A275 (1989) 71
Morháč, M., see Ribanský, I. ... A271 (1988) 704
Mori, K., see Ohmori, C. ... A278 (1989) 705
Mori, S., see Abe, F. ... A271 (1988) 387
Mori, S., see Hasegawa, M. ... A277 (1989) 395
Mori, Y., see Ueno, A. ... A271 (1988) 343
Mori, Y., see Sato, H. ... A272 (1988) 617
Mori, Y., G.D. Alton, A. Takagi, A. Ueno and S. Fukumoto, Further evaluation of the high intensity plasma sputter heavy negative ion source ... A273 (1988) 5
Mori, Y., A. Takagi, A. Ueno, K. Ikegami and S. Fukumoto, Dc beam operation of the cusp negative heavy ion source (*Letter to the Editor*) ... A278 (1989) 605
Mori, Y., see Ohmori, C. ... A278 (1989) 705
Morimoto, T., see Arai, S. ... A278 (1989) 236
Morinaga, H., Resumé of the Workshop on the Feasibility of Solar Neutrino Detection with ^{205}Pb by Geochemical and Accelerator Mass Spectroscopical Measurement ... A271 (1988) 256
Morinaga, H., see Heinzl, J. ... A271 (1988) 259
Morinaga, H., see Preisenberger, E. ... A271 (1988) 266
Morita, Y., see Abe, F. ... A271 (1988) 387
Moromisato, J., see Braunschweig, W. ... A275 (1989) 246
Moromisato, J., see Bari, G. ... A277 (1989) 11
Moromisato, J.H., E.J. Saletan, E. Von Goeler, B. Jeckelmann and I.A. Pless, Nonflammable gas mixtures for streamer tubes ... A274 (1989) 177
Morrison, D.R.O., see Angelini, C. ... A277 (1989) 132
Morrison, T.P. and N.A. Smith, A thirty-two channel VME scaler ... A274 (1989) 533
Morselli, A., see Basini, G. ... A276 (1989) 367
Morton, W.T., Knot positions in least-squares fitting of data using cubic splines ... A272 (1988) 861
Möschen, J., see Buttler, W. ... A277 (1989) 217
Moschini, G., see Valković, V. ... A280 (1989) 459
Moser, J., see Adlassnig, W. ... A277 (1989) 485
Moser, W., see Zorn, C. ... A271 (1988) 701
Moser, W., see Zorn, C. ... A273 (1988) 108
Moser, W., see Zorn, C. ... A276 (1989) 58
Moses, R.T., see Fowler, P.H. ... A275 (1989) 175
Mösner, J., see Michel, P. ... A273 (1988) 299
Moss, G.R., see Bateman, J.E. ... A273 (1988) 767
Mössbauer, R., Weak interaction mixing ... A271 (1988) 237
Mossberg, K., P.-O. Forsgren, L. Hildingsson, W. Klamra and Th. Lindblad, Three-dimensional image processing in the analysis of triple γ-ray energy coincidences ... A278 (1989) 755
Moszyński, M., see Białkowski, J. ... A275 (1989) 322
Moszyński, M. and H. Mach, A method for picosecond lifetime measurements for neutron-rich nuclei. (2) Timing study with scintillation counters ... A277 (1989) 407
Moszyński, M., see Mach, H. ... A280 (1989) 49
Moszyński, M., J.H. Bjerregard, J.J. Gaardhøje, B. Herskind, P. Knudsen and G. Sletten, Limitation of the Compton suppression in Ge–BGO Compton suppression spectrometers ... A280 (1989) 73
Motobayashi, T., S. Satoh, H. Murakami, H. Sakai and M. Ishihara, A silicon counter array for ^{2}He detection ... A271 (1988) 491
Motobayashi, T., see Yanagimachi, T. ... A275 (1989) 307
Motobayashi, T., see Koori, N. ... A278 (1989) 737
Motz, H., see Mima, K. ... A272 (1988) 106
Motz, H., see Luchini, P. ... A272 (1988) 334
Mouadili, A., J. Vernois and D.B. Isabelle, Measurement of fluorine total concentration in dental enamel using fast-neutron activation ... A280 (1989) 485
Moučka, L., see Anisimov, Yu.S. ... A273 (1988) 731
Mount, R., see Ma, H. ... A274 (1989) 113
Mours, B., see Aubert, B. ... A279 (1989) 126
Mouthuy, T., see De Winter, K. ... A277 (1989) 83
Mouthuy, T., see De Winter, K. ... A277 (1989) 170
Mouthuy, T., see CHARM II Collaboration ... A278 (1989) 670
Moxon, M.C., see Schmiedmayer, J. ... A276 (1989) 250
Muciaccia, M.T., see Aoki, S. ... A274 (1989) 64
Muehlehner, G., see Karp, J.S. ... A273 (1988) 891
Mühry, H., see Jaskóła, M. ... A273 (1988) 441

Mukherjee, A., see Abe, F. ... A271 (1988) 387
Mukhin, V.V., see Karas', V.I. ... A278 (1989) 247
Mukhopadhyay, T., see Dasgupta, S. ... A276 (1989) 25
Müller, M., see Korschinek, G. ... A271 (1988) 328
Müller, R.W., see Hoffmann, D.H.H. ... A278 (1989) 44
Müller, R.W., see Melchert, F. ... A278 (1989) 65
Müller, R.W., see Jacoby, J. ... A278 (1989) 82
Müller, R.W., Improvement ideas for heavy-ion fusion linacs ... A278 (1989) 166
Müller, R.W., see Heimrich, B. ... A278 (1989) 202
Mullié, J., see Aleksan, R. ... A273 (1988) 303
Mulser, P., K. Niu and R.C. Arnold, Collision frequency in ion-beam–plasma interaction under strong drift conditions ... A278 (1989) 89
Munakata, K., see Yanagimachi, T. ... A275 (1989) 307
Munakata, K., T. Kohno, T. Imai and M. Matsuoka, Computer simulations for a cosmic ray heavy ion telescope ... A276 (1989) 306
Munday, D.J., see Ansorge, R.E. ... A273 (1988) 826
Munday, D.J., see Alitti, J. ... A279 (1989) 364
Munday, D.J., see Ansari, R. ... A279 (1989) 388
Muñoz, R., see Buckley, E. ... A275 (1989) 364
Munoz, R., see UA1 Collaboration ... A279 (1989) 83
Munsch, J., see ISOCELE Collaboration ... A274 (1989) 485
Münzenberg, G., see Hessberger, F.P. ... A274 (1989) 522
Murakami, A., see Abe, F. ... A271 (1988) 387
Murakami, H., see Motobayashi, T. ... A271 (1988) 491
Murakami, H., see Kubota, S. ... A273 (1988) 645
Murakami, H., see Bourotte, J. ... A274 (1989) 129
Murakami, H., see Yanagimachi, T. ... A275 (1989) 307
Murakami, T., T.K. Nayak, W.G. Lynch, K. Swartz, Z. Chen, D.J. Fields, C.K. Gelbke, Y.D. Kim, M.R. Maier, J. Pochodzalla, M.B. Tsang, H.M. Xu and F. Zhu, A position sensitive high resolution hodoscope for particle unstable intermediate mass fragments ... A275 (1989) 112
Muraki, Y., see Abe, F. ... A271 (1988) 387
Muraki, Y., see Bourotte, J. ... A274 (1989) 129
Murata, Y., see Harada, M. ... A276 (1989) 451
Muratori, G., see Baillon, P. ... A276 (1989) 492
Muratori, G., see Baillon, P. ... A277 (1989) 338
Murnick, D.E., see Ulrich, A. ... A278 (1989) 72
Murphy, B.D., J.H. Whealton, G.E. McMichael, W.B. Becraft and H.H. Haselton, High-current radiofrequency quadrupole accelerators for current drive in tokamaks ... A275 (1989) 157
Murphy, L.Y., see Gothe, R.W. ... A276 (1989) 233
Murtas, F., see Baldini-Celio, R. ... A280 (1989) 45
Murtas, G.P., see Albrizio, R. ... A271 (1988) 449
Murtas, G.P., see Baldini-Celio, R. ... A280 (1989) 45
Murthy, G.S.N., see Bandyopadhyaya, S.K. ... A278 (1989) 467
Mussa, R., see Biino, C. ... A271 (1988) 417
Musset, P., see Aoki, S. ... A274 (1989) 64
Mutou, M., see Endo, I. ... A280 (1989) 144
Mutsuro, N., see Ohya, S. ... A276 (1989) 223
Mutterer, M., see Heeg, P. ... A278 (1989) 452
Mynard, J.E., see Mingxiu, M. ... A277 (1989) 279
Myring, W.J., see Richards, K.S. ... A272 (1988) 889

Naber, A.P., see Mels, W.A. ... A273 (1988) 689
Naboka, A.M., see Karas', V.I. ... A278 (1989) 247
Nagae, T., see Ninomiya, M. ... A272 (1988) 727
Nagamiya, S., see Engelage, J. ... A277 (1989) 431
Nagasawa, H., see Schneider, J.R. ... A276 (1989) 636
Nagashima, Y., see Homma, Y. ... A274 (1989) 183
Nagashima, Y., see Suzuki, Y. ... A275 (1989) 142
Nagata, K., see Yanagimachi, T. ... A275 (1989) 307
Nagayoshi, K., see Takada, Y. ... A273 (1988) 410
Nagovitsin, V., see Danilov, M. ... A274 (1989) 189
Nagovitsin, V., see ARGUS Collaboration ... A275 (1989) 1

Nakach, A., see Koch, H.R. ... A271 (1988) 375
Nakagawa, T. and W. Bohne, A compact and gridless channel plate start detector ... A271 (1988) 523
Nakagawa, T., see Ohmori, C. ... A278 (1989) 705
Nakagawa, Y., see Chiba, M. ... A276 (1989) 122
Nakai, K., see Ninomiya, M. ... A272 (1988) 727
Nakai, S., see Mima, K. ... A272 (1988) 106
Nakajima, K., Progress in accelerators and detectors at TRISTAN ... A279 (1989) 7
Nakamoto, A., see Bourotte, J. ... A274 (1989) 129
Nakamoto, A., see Yanagimachi, T. ... A275 (1989) 307
Nakamura, M., see Aoki, S. ... A274 (1989) 64
Nakamura, T., see Uwamino, Y. ... A271 (1988) 546
Nakamura, Y., see Aoki, S. ... A274 (1989) 64
Nakanishi, T., Measurements of emittances and momentum spectra of a 20 MeV electron linac beam ... A277 (1989) 313
Nakanishi, T., see Ohmori, C. ... A278 (1989) 705
Nakate, T., see Takiue, M. ... A274 (1989) 345
Nakayama, K., see Gomei, Y. ... A278 (1989) 389
Nakayama, S., see Mima, K. ... A272 (1988) 106
Nakazawa, K., see Aoki, S. ... A274 (1989) 64
Nakazawa, M., see Ikeda, Y. ... A276 (1989) 183
Nakazawa, N., see Hayasino, T. ... A271 (1988) 518
Namatame, S., see Mochiki, K.-I. ... A273 (1988) 640
Nambiar, P.P.V.J., see Sunta, C.M. ... A280 (1989) 449
Nania, R., see Bari, G. ... A277 (1989) 11
Napier, A., see Oliver, W.P. ... A276 (1989) 371
Napolitano, J.J., S.J. Freedman, G.T. Garvey, M.C. Green, K.T. Lesko, J.E. Nelson, J.N. Worthington, K.P. Coover, J.W. Dawson, W. Haberichter and E.P. Petereit, Construction and performance of a large area liquid scintillator cosmic ray anticoincidence detector ... A274 (1989) 152
Napolitano, M., see Adeva, B. ... A277 (1989) 187
Nappey, P., see Ansorge, R.E. ... A273 (1988) 826
Naqvi, A.A., see Gul, K. ... A278 (1989) 470
Nardi, E., Spectral information in intense radiation bursts (*Letter to the Editor*) ... A280 (1989) 147
Narjoux, J.L., see WA76 Collaboration ... A274 (1989) 165
Nascimento, I.C., see Vannucci, A. ... A280 (1989) 593
Nash, J., see Harnew, N. ... A279 (1989) 290
Nastasi, U., see Manfredotti, C. ... A271 (1988) 571
Nasu, S., see Uehara, S.-I. ... A276 (1989) 543
Natali, S., see Albrizio, R. ... A271 (1988) 449
Natali, S., see Aoki, S. ... A274 (1989) 64
Nathaniel, A., see De Winter, K. ... A277 (1989) 83
Nathaniel, A., see De Winter, K. ... A277 (1989) 170
Nathaniel, A., see CHARM II Collaboration ... A278 (1989) 670
Naumann, L., see UA1 Collaboration ... A279 (1989) 83
Navach, F., see WA76 Collaboration ... A274 (1989) 165
Navarra, G., see Bari, G. ... A277 (1989) 11
Navarra, G., see Aglietta, M. ... A277 (1989) 23
Navarria, F.L., see Camporesi, T. ... A277 (1989) 77
Navarria, F.-L., see Camporesi, T. ... A277 (1989) 230
Nayak, T.K., see Murakami, T. ... A275 (1989) 112
Neale, W.W., see Toothacker, W.S. ... A273 (1988) 97
Nefkens, B.M.K., see Barlow, D.B. ... A271 (1988) 471
Nefkens, B.M.K., see Wightman, J.A. ... A275 (1989) 281
Nefkens, B.M.K., see Kessler, R.S. ... A275 (1989) 285
Neldner, K., H.W. Becker, S. Engstler, M. Köster, C. Rolfs, U. Schröder, W.H. Schulte, H.P. Trautvetter and K. Brand, Absolute energy calibration of a low-energy accelerator by the time-of-flight technique ... A274 (1989) 419
Nelson, A.H., see Love, D.J.G. ... A274 (1989) 541
Nelson, C., see Abe, F. ... A271 (1988) 387
Nelson, C., see Engels Jr, E. ... A279 (1989) 272
Nelson, J.E., see Napolitano, J.J. ... A274 (1989) 152
Nemethy, P., see D0 Calorimeter Group ... A280 (1989) 36
Nemoz, Ch., see Agoritsas, V. ... A277 (1989) 237
Nering, J., see Powell, C. ... A271 (1988) 41

Nering, J., B. Maglich and C. Powell, Parameters of the Migma IVb experiment and physical quantities to be measured . . . A271 (1988) 155
Nelić, D., see D0 Calorimeter Group . . . A280 (1989) 36
Nestle, H. and H. Wollnik, FAMA/FAMULUS: programs for the fast calculation of two-dimensional distributions of magnetic and electric fields . . . A276 (1989) 568
Nestle, H., see Heimrich, B. . . . A278 (1989) 202
Netušil, T., see Anisimov, Yu.S. . . . A273 (1988) 731
Neuffer, D., Lumped correction of the multipole content in large synchrotrons (*Letter to the Editor*) . . . A274 (1989) 400
Neuhauser, B., see Cabrera, B. . . . A275 (1989) 97
Newman, H., see Ma, H. . . . A274 (1989) 113
Newman-Coburn, D., see Carter, J.R. . . . A278 (1989) 725
Newman-Holmes, C., see Abe, F. . . . A271 (1988) 387
Newman-Holmes, C., E.E. Schmidt and R. Yamada, Measurement of the magnetic field of the CDF magnet . . . A274 (1989) 443
Newnam, B.E., see Goldstein, J.C. . . . A272 (1988) 150
Newnam, B.E., see Schmitt, M.J. . . . A272 (1988) 586
Newton, A.A., see Robertson, S.H. . . . A279 (1989) 599
Neyer, C., see Böhm, A. . . . A273 (1988) 471
Nezmar, L., see Anisimov, Yu.S. . . . A273 (1988) 731
Ng, C., see Atiya, M. . . . A279 (1989) 180
Ng, K.K., see D0 Calorimeter Group . . . A280 (1989) 36
Nguyen, A., see Engels Jr, E. . . . A279 (1989) 272
Nguyen, H.K., see Braunschweig, W. . . . A275 (1989) 246
Nguyen Van Sen, see Arvieux, J. . . . A273 (1988) 48
Nichols, C., see Baillon, P. . . . A276 (1989) 492
Nichols, C., see Baillon, P. . . . A277 (1989) 338
Nicholson, H.W., see Alston-Garnjost, M. . . . A271 (1988) 475
Nicoletti, G., see Baldini-Celio, R. . . . A280 (1989) 45
Nicoletto, M., see UA1 Experiment . . . A279 (1989) 169
Niebergall, F., see De Winter, K. . . . A277 (1989) 83
Niebergall, F., see De Winter, K. . . . A277 (1989) 170
Niebergall, F., see CHARM II Collaboration . . . A278 (1989) 670
Nieuwenhuis, C., see De Winter, K. . . . A277 (1989) 83
Nieuwenhuis, C., see De Winter, K. . . . A277 (1989) 170
Nieuwenhuis, C., see CHARM II Collaboration . . . A278 (1989) 670
Nigro, A., see Gasparini, F. . . . A273 (1988) 485
Nigro, A., see Aoki, S. . . . A274 (1989) 64
Niihori, Y., see Fujinaga, T. . . . A276 (1989) 317
Niki, K., see Harada, M. . . . A276 (1989) 451
Niki, K., see Endo, I. . . . A280 (1989) 144
Nikitin, A., see L3 Collaboration . . . A275 (1989) 71
Nilsson, A.W., see ARGUS Collaboration . . . A275 (1989) 1
Nilsson, L., see Håkansson, A. . . . A273 (1988) 211
Nilsson, L. (Book review: Capture gamma-ray spectroscopy 1987, proceedings of the sixth conference on capture gamma-ray spectroscopy held at Leuven, Belgium, from 31 August to 4 September 1987, edited by K. Abrahams and P. Van Assche) . . . A274 (1989) 412
Ninomiya, M., I. Arai, A. Manabe, H. Nunokawa, M. Tanaka, K. Tomizawa, K. Yagi, T. Kobayashi, J. Chiba, K. Nakai, H. Sano, S. Sasaki, T. Nagae, K. Tokushuku and M. Sekimoto, A small-sized MWPC with 1 mm wire spacing as a beam/target chamber for nuclear experiments . . . A272 (1988) 727
Nishi, M., see Miyata, K. . . . A279 (1989) 640
Nishikawa, M., T. Takeishi, Y. Matsumoto and I. Kumabe, Ionization chamber system to eliminate the memory effect of tritium . . . A278 (1989) 525
Nishimura, K., see Ohya, S. . . . A276 (1989) 223
Nishiwaki, N., see Noguchi, S. . . . A271 (1988) 404
Nishiyama, F., see Ohmori, C. . . . A278 (1989) 705
Niu, K., see Aoki, S. . . . A274 (1989) 64
Niu, K., see Mulser, P. . . . A278 (1989) 89
Niu, K., see Okada, T. . . . A278 (1989) 97
Niu, K., see Kaneda, T. . . . A278 (1989) 99
Niu, K., An ion beam target for 3 GJ fusion output . . . A278 (1989) 102
Niwa, K., see Aoki, S. . . . A274 (1989) 64
Niwa, T., see Ikeda, Y. . . . A276 (1989) 183

Nixon, G., see Belusevic, R. ... A277 (1989) 513
Noda, A., see Watanabe, S.-I. ... A271 (1988) 359
Nodulman, L., see Abe, F. ... A271 (1988) 387
Noguchi, M., see Hasegawa, M. ... A277 (1989) 395
Noguchi, S., H. Hayashii, N. Fujiwara, S. Yamashita, N. Iida, N. Nishiwaki and Y. Watanabe, The TOPAZ luminosity monitor at KEK ... A271 (1988) 404
Noll, R., see Weyrich, K. ... A278 (1989) 52
Noll, R., H. Kunze and C.R. Haas, A plasma target for the investigation of the interaction of fast heavy ions with hot matter ... A278 (1989) 85
Nolte, E., see Heinzl, J. ... A271 (1988) 259
Nolte, E., see Preisenberger, E. ... A271 (1988) 266
Nomura, Y., see Momota, H. ... A271 (1988) 7
Norkin, D.T., see Artusi, G. ... A279 (1989) 523
Norris, J.R., see Tang, J. ... A273 (1988) 338
Norton, A., see Beingessner, S.P. ... A279 (1989) 253
Norwood Jr. J., Two-fluid MHD model of migma: equilibrium and stability ... A271 (1988) 89
Nowak, W.-D., see Böhm, A. ... A273 (1988) 471
Nozdrin, A.A., see Antipov, Yu.M. ... A274 (1989) 452
Nuñez-Lagos, R., see Larrea, A. ... A273 (1988) 218
Nunokawa, H., see Ninomiya, M. ... A272 (1988) 727
Nurmia, M.J., see Hall, H.L. ... A276 (1989) 649
Nusbaumer, M., see Böhm, A. ... A273 (1988) 471
Nussbaum, M., see Coyle, P. ... A273 (1988) 858
Nuttall, A., see Coyle, P. ... A273 (1988) 858
Nutter, S.L., C.R. Bower, M.W. Gebhard and R.M. Heinz, The transmittance by a hollow specularly reflecting cylindrical light pipe of isotropically incident radiation ... A273 (1988) 389
Nuzzo, S., see Albrizio, R. ... A271 (1988) 449
Nuzzo, S., see Aoki, S. ... A274 (1989) 64
Nyman, G., see Bäcklund, Y. ... A279 (1989) 555

Obenshain, F.E., see Awes, T.C. ... A279 (1989) 479
Obenshain, F.E., see Young, G.R. ... A279 (1989) 503
Oberlack, H., see Braunschweig, W. ... A275 (1989) 246
Obert, J., see ISOCELE Collaboration ... A274 (1989) 485
O'Brien, J.T., see Feldl, E.J. ... A274 (1989) 439
Ocaña, J.L., see Velarde, G. ... A278 (1989) 105
Occhigrossi, M., see Basini, G. ... A276 (1989) 367
Ochsenbein, S., D. Schinzel, A. Gonidec and W.F. Schmidt, Purity in room temperature liquid ionization chambers ... A273 (1988) 654
Ochsenbein, S., see Buckley, E. ... A275 (1989) 364
Ockenfels, M., see Köble, T. ... A275 (1989) 460
O'Connor, D., see Matsuno, S. ... A276 (1989) 359
Odian, A., see Adler, J. ... A276 (1989) 42
Odorici, F., see Artusi, G. ... A279 (1989) 523
O'Dwyer, M.A., see Bemrose, C.R. ... A273 (1988) 874
O'Dwyer, M.A., M.R. Hawkesworth and J. Walker, Aspects of the application of positron emission tomography to engineering studies: drawing overlays and correction for photon attenuation ... A273 (1988) 898
O'Dwyer, M.A., see Beynon, T.D. ... A273 (1988) 908
Oettinger, P.E., R.E. Shefer, D.L. Birx and M.C. Green, Photoelectron sources: selection and analysis ... A272 (1988) 264
Ofek, R., A. Tsechanski, A.E. Profio and G. Shani, An experimental setup for measurement of neutron energy spectra in lithium with collimated 14.7 MeV neutrons ... A278 (1989) 513
Ogawa, K. and K. Arita, Shell-model study of the first forbidden ^{205}Tl → ^{205}Pb transition and solar neutrino detection ... A271 (1988) 280
Ogawa, K., see Sumiyoshi, T. ... A271 (1988) 432
Ogden, P.A., see Smith, N.J.T. ... A276 (1989) 622
Ogilvie, C.A., see Angius, S.A. ... A273 (1988) 283
O'Grady, C., see Kubota, Y. ... A279 (1989) 73
Ogura, K., see Ueno, A. ... A271 (1988) 343
Oh, B.Y., see Engels Jr, E. ... A279 (1989) 272
Ohashi, M., see Hayasino, T. ... A271 (1988) 518
Ohashi, M., see Aoki, S. ... A274 (1989) 64

Ohashi, Y., see Matsuno, S. A276 (1989) 359
Ohgaki, H., S. Uehara, T. Fujiki, H. Ijiri, T. Sakae, N. Koori and M. Matoba, Position sensing with a gas counter in the SQS transition region A273 (1988) 522
Ohigashi, N., see Mima, K. A272 (1988) 106
Ohkubo, K., see Ikeda, Y. A276 (1989) 183
Ohkubo, M., see Kawarasaki, Y. A272 (1988) 206
Ohkubo, T.-O., see Uwamino, Y. A271 (1988) 546
Ohmori, C., N. Horikawa, Y. Ishida, T. Iwata, T. Kinashi, I. Maeda, T. Matsuda, T. Nakanishi, S. Okumi, Y. Takeda, T. Toyama, Y. Kobayashi, T. Nakagawa, S. Hiramatsu, S. Ishimoto, Y. Mori, H. Sato, T. Tsuru, T. Hasegawa, K. Mori, K. Iwatani, H. Hasai, F. Nishiyama, A. Ueno and J.A. Holt, Proton polarimeter for high energy experiments at KEK A278 (1989) 705
Ohnishi, M., see Momota, H. A271 (1988) 7
Ohsawa, T., see Koori, N. A278 (1989) 737
Ohsugi, T., see Amako, K. A272 (1988) 687
Ohsugi, T., see Hasegawa, M. A277 (1989) 395
Ohya, S., H. Miura, K. Nishimura, N. Mutsuro and T. Aoki, A Compton polarimeter constructed with a large Si(Li) scatterer and two Ge analysers A276 (1989) 223
Oide, K., A final focus system for flat-beam linear colliders A276 (1989) 427
Okada, A., see Matsuno, S. A276 (1989) 359
Okada, I., see Takada, Y. A273 (1988) 410
Okada, T., T. Shimojo and K. Niu, Weibel-type instability of intense ion beam propagation in a reactor chamber A278 (1989) 97
Okamato, M., see Momota, H. A271 (1988) 7
Okamoto, S., see Kawai, T. A276 (1989) 408
Oku, Y., see ARGUS Collaboration A275 (1989) 1
Okudaira, K., see Yoshimori, M. A272 (1988) 880
Okumi, S., see Ohmori, C. A278 (1989) 705
Okumura, Y., see Sano, T. A275 (1989) 346
Okuno, E., see De Lima, J.F. A280 (1989) 436
Okx, W.J.C., C.W.E. Van Eijk, R.W. Hollander and A. Zoutendijk, A gas-scintillation proportional detector for exotic-atom X-rays with charged particle rejection A273 (1988) 544
Okx, W.J.C., C.W.E. Van Eijk, M. Looman and N.W. Tanner, A novel threshold Cherenkov detector A273 (1988) 548
Oliveira, C., see Salgado, J. A280 (1989) 530
Oliveira, I.C., see Vannucci, A. A280 (1989) 593
Oliver, W.P., B. Saitta, D. Benjamin. T. Kafka, J. Kochocki, W.A. Mann, L. McMaster, R.H. Milburn, A. Napier, J. Schneps and N. Sundaralingam, A rugged 1700 m^2 proportional tube array A276 (1989) 371
Olivier, M., see Koch, H.R. A271 (1988) 375
Olko, P., see Bednarek, B. A274 (1989) 349
Olmi, A., see Casini, G. A277 (1989) 445
Olness, J.W., see Alburger, D.E. A276 (1989) 127
Olschner, F., see Lund, J.C. A272 (1988) 885
Olsen, A., T. Buran, K. Eilertsen, G. Maehlum, A. Read, B. Skaali and I. Spydevold, A CMOS charge sensitive amplifier for silicon strip detectors: design criteria and test results A273 (1988) 565
Olsen, A., see Heijne, E.H.M. A273 (1988) 615
Olshevski, A.G., see Antipov, Yu.M. A274 (1989) 452
Olson, D.L., see Engelage, J. A277 (1989) 431
Olsson, N., see Håkansson, A. A273 (1988) 211
Omarini, S., see Coppola, R. A280 (1989) 583
O'Meara, J., see Abe, F. A271 (1988) 387
Omori, M., see Bakich, A.M. A273 (1988) 853
Omori, M., A simple method to estimate small photoelectron numbers for a photomultiplier using the log–normal function A276 (1989) 602
Omori, M., see Bakich, A.M. A278 (1989) 565
Omori, T., see Doi, Y. A274 (1989) 95
Omori, T., see Chiba, M. A276 (1989) 122
Ong, B., see Desalvo, R. A279 (1989) 467
Ono, R.H., see Gabutti, A. A278 (1989) 425
Onoda, T. and H. Sekimoto, A neutron spectrometry unfolding code based on quadratic programming A272 (1988) 844
Onofre, A., see CPLEAR Collaboration A279 (1989) 305
Onuchin, A.P., see Blinov, A.E. A273 (1988) 31
Onvlee, H., see Duinker, P. A273 (1988) 814

Onvlee, J., see Adeva, B. A277 (1989) 187
O-Ohata, K., see Ueno, A. A271 (1988) 343
Ophel, T.R., L.K. Fifield, W.N. Catford, N.A. Orr, C.L. Woods, A. Harding and G.P. Clarkson, The identification and rejection of energy-degraded events in gas ionization counters A272 (1988) 734
Ophel, T.R., see England, J.B.A. A280 (1989) 291
Orava, R., see Laakso, M. A273 (1988) 525
Orava, R., see Eerola, P. A273 (1988) 841
Orlić, I., W.J.M. Lenglet and R.D. Vis, Accurate measurement of the relative Si(Li) detector efficiency for X-ray energies below 5 keV A276 (1989) 202
Orlić, N., see Dobrinić, J. A280 (1989) 384
Orr, N.A., see Ophel, T.R. A272 (1988) 734
Orr, R.S., see ARGUS Collaboration A275 (1989) 1
Orris, D., see Engels Jr, E. A279 (1989) 272
Ortega, J.M., see Prazeres, R. A272 (1988) 68
Ortega, J.M., see Couprie, M.E. A272 (1988) 166
Ortlepp, H.-G., see Seidel, W. A273 (1988) 536
Ortlepp, H.-G. and A. Romaguera, Real time digital processing of Bragg ionization chamber signals A276 (1989) 500
Orzechowski, T.J., see Throop, A.L. A272 (1988) 15
Osabe, H., see Sumiyoshi, T. A271 (1988) 432
Osabe, H., see Homma, Y. A274 (1989) 183
Osborne, L.S., see Benvenuti, A.C. A276 (1989) 94
Osborne, L.S., see Womersley, W.J. A278 (1989) 447
O'Shea, V., see Bari, G. A277 (1989) 11
Oshima, M., see Ichikawa, S. A274 (1989) 259
Oshima, M., see Kawamura, T. A275 (1989) 462
Oshima, N., see Brown, C. A279 (1989) 331
Oskarsson, A., see Lavergne-Gosselin, L. A276 (1989) 210
Oskarsson, A., see Awes, T.C. A279 (1989) 479
Ososkov, G.A., see Chernov, N.I. A274 (1989) 547
Oss, S., see De Vries, J. A275 (1989) 194
Ossmann, J., see Bakken, J.A. A275 (1989) 81
Ossmann, J., see Bakken, J.A. A280 (1989) 25
Ostojić, R., A fast Poisson integrator for magnetic field calculations in cyclotrons A271 (1988) 354
Ott, G., see Abe, F. A271 (1988) 387
Ott, R.J., see Solomon, C.J. A273 (1988) 787
Otter, A., see Abegg, R. A273 (1988) 43
Otterlund, I., see Awes, T.C. A279 (1989) 479
Ottewell, D.F., see Shin, Y.M. A274 (1989) 227
Ottewell, D.F., see Kessler, R.S. A275 (1989) 285
Ottmann, K., see Giorginis, G. A273 (1988) 650
Ouimette, D.A., see Cousins, R.D. A277 (1989) 517
Øverås, H., see De Winter, K. A277 (1989) 83
Øverås, H., see De Winter, K. A277 (1989) 170
Øverås, H., see CHARM II Collaboration A278 (1989) 670
Owen, D., see Womersley, W.J. A278 (1989) 447
Owen, D.P., see D0 Calorimeter Group A280 (1989) 36
Owens, A., A comparison of empirical and semiempirical efficiency calculations for Ge detectors A274 (1989) 297
Owens, A., see Dunphy, P.P. A274 (1989) 362
Owens, A., D. Bhattacharya, E.L. Chupp, J. Googins and C.J. Seymour, Performance of a simple multiparameter data acquisition system at balloon altitudes A275 (1989) 416
Oxoby, G., see Coyle, P. A273 (1988) 858
Ozaki, T., see Abe, F. A271 (1988) 387
Özcan, M., see Fisher, A.S. A272 (1988) 89

Paar, H.P., see Desalvo, R. A279 (1989) 467
Padamsee, H., see Shu, Q.S. A278 (1989) 329
Padley, B.P., see ARGUS Collaboration A275 (1989) 1
Pagan, C.J.B., see Trigueiros, A. A280 (1989) 589
Page, R.D., see Woods, P.J. A276 (1989) 195
Pai, S., W.F. Piel Jr, D.B. Fossan and M.R. Maier, A versatile electronic pulse-shape discriminator A278 (1989) 749
Pak, C.O., The control system of the photon factory storage ring A277 (1989) 501

Pal, T., see Borer, K. ... A273 (1988) 605
Pal, T., see Ansari, R. ... A279 (1989) 388
Palano, A., see WA76 Collaboration ... A274 (1989) 165
Palanque, S., see Abe, F. ... A271 (1988) 387
Palenius, T., see Burns, M. ... A277 (1989) 154
Palenius, T., see Dijkstra, H. ... A277 (1989) 160
Palestini, S., see Biino, C. ... A271 (1988) 417
Palestini, S., see Calabrese, R. ... A277 (1989) 116
Palka, H., see Burns, M. ... A277 (1989) 154
Palka, H., see Dijkstra, H. ... A277 (1989) 160
Palladino, V., see De Winter, K. ... A277 (1989) 83
Palladino, V., see De Winter, K. ... A277 (1989) 170
Palladino, V., see CHARM II Collaboration ... A278 (1989) 670
Palma Lopes, S., see Dijkstra, H. ... A277 (1989) 160
Palme, H., M.K. Pavićević and B. Spettel, Major and trace elements in some minerals and ore from Crven Dol, Allchar ... A271 (1988) 314
Palmonari, F., see Bari, G. ... A277 (1989) 11
Palombo, P., see Antipov, Yu.M. ... A274 (1989) 452
Paludetto, R., see SICAPO Collaboration ... A279 (1989) 57
Paludetto, R., see SICAPO Collaboration ... A279 (1989) 66
Paludetto, R., see Borchi, E. ... A279 (1989) 277
Pandit, V.S., see Sarma, P.R. ... A274 (1989) 431
Pandit, V.S., P.R. Sarma and R.K. Bhandari, Optimization of the parameters of an ion beam buncher ... A276 (1989) 21
Pang, F., see Ma, K.B. ... A272 (1988) 326
Pang, Y., see DiBitonto, D. ... A279 (1989) 100
Panman, J., see De Winter, K. ... A277 (1989) 83
Panman, J., see De Winter, K. ... A277 (1989) 170
Panman, J., see CHARM II Collaboration ... A278 (1989) 670
Pannicke, J., see Heeg, P. ... A278 (1989) 452
Pantaleo, A., L. Fiore, G. Guarino, V. Paticchio, G. D'Erasmo and E.M. Fiore, Detection efficiency loss in a position sensitive scintillator hodoscope neutron detector ... A276 (1989) 191
Panteleyev, V.N., see Alkhazov, G.D. ... A280 (1989) 141
Pantell, R.H., see Fisher, A.S. ... A272 (1988) 89
Pantell, R.H., see Reid, M.B. ... A272 (1988) 268
Paoletti, R., see Abe, F. ... A271 (1988) 387
Paoletti, R., see Apollinari, G. ... A277 (1989) 138
Paoletti, R., see Apollinari, G. ... A279 (1989) 396
Paoluzi, L., The Gran Sasso National Laboratory ... A279 (1989) 133
Para, A., see Abe, F. ... A271 (1988) 387
Pare, E., see Bourotte, J. ... A274 (1989) 129
Parish, T.A., see Harms, A.A. ... A271 (1988) 225
Parker, B., see Lewis, R. ... A273 (1988) 773
Parker, M.A., see Borer, K. ... A273 (1988) 605
Parker, M.A., see Ansari, R. ... A279 (1989) 388
Parker, S., A proposed VLSI pixel device for particle detection ... A275 (1989) 494
Parodi, R., see Boni, R. ... A274 (1989) 49
Parrini, G., see Batignani, G. ... A277 (1989) 147
Paschoa, A.S., see Eisenbud, M. ... A280 (1989) 470
Paschoa, A.S., see Dias Da Cunha, K.M.A. ... A280 (1989) 492
Pascoli, D., see Pietarinen, E. ... A276 (1989) 577
Pasini, P., see Camporesi, T. ... A277 (1989) 230
Pasquali, G., see Bacchetta, N. ... A273 (1988) 172
Pass, B., see Aldrich, J.E. ... A273 (1988) 451
Pastor, C., see Guinet, D. ... A278 (1989) 614
Pastrone, N., see Biino, C. ... A271 (1988) 417
Patel, M., see Smith, N.J.T. ... A276 (1989) 622
Patel, P.M., see ARGUS Collaboration ... A275 (1989) 1
Paterno, M., see D0 Calorimeter Group ... A280 (1989) 36
Paternoster, G., see Adeva, B. ... A277 (1989) 187
Paticchio, V., see Pantaleo, A. ... A276 (1989) 191
Patiño, N.E., see Gillette, V.H. ... A280 (1989) 273

Patricelli, S., see Adeva, B. ... A277 (1989) 187
Patrick, J., see Abe, F. ... A271 (1988) 387
Patteri, P., see Cavallo, N. ... A272 (1988) 64
Patterson, J.R. and A.M. Hillas, Optimizing the design of very high energy gamma ray telescopes ... A278 (1989) 553
Paul, D., see Wick, K. ... A277 (1989) 251
Paul, H.J., see Brinkmann, K.-Th. ... A276 (1989) 557
Paul, M., B.G. Glagola, W. Henning, J.G. Keller, W. Kutschera, Z. Liu, K.E. Rehm, B. Schneck and R.H. Siemssen, Heavy ion separation with a gas-filled magnetic spectrograph ... A277 (1989) 418
Paulo, S.R., see Bigazzi, G. ... A280 (1989) 506
Pauluzzi, M., see Benvenuti, A.C. ... A276 (1989) 94
Pauluzzi, M., see Alpat, B. ... A277 (1989) 260
Pauluzzi, M., see Cartwright, S. ... A277 (1989) 269
Pautrat, M., see Lagrange, J.M. ... A271 (1988) 527
Pavićević, M.K., Lorandite from Allchar – A low energy solar neutrino dosimeter ... A271 (1988) 287
Pavićević, M.K. and A. El Goresy, Crven Dol Tl deposit in Allchar: Mineralogical investigation, chemical composition of Tl minerals and genetic implications ... A271 (1988) 297
Pavićević, M.K., see Palme, H. ... A271 (1988) 314
Pavićević, M.K., see Bugarski, P. ... A271 (1988) 320
Pavlopoulos, P., see CP-LEAR Collaboration ... A279 (1989) 285
Pavlopoulos, P., see Francke, T. ... A279 (1989) 317
Pazzuello, D., see Abe, F. ... A271 (1988) 387
Pétroff, P., see Arnold, R. ... A273 (1988) 466
Peacock, A., see Kowalski, T.Z. ... A279 (1989) 567
Peak, L.S., see Bakich, A.M. ... A273 (1988) 853
Peak, L.S., see Bakich, A.M. ... A278 (1989) 565
Pearson, J.F., see Fraser, G.W. ... A273 (1988) 667
Peatman, W., see Wolf, F.-P. ... A278 (1989) 598
Peckhaus, R., see Dresel, Th. ... A275 (1989) 301
Pedeville, G., see Engels Jr, E. ... A279 (1989) 272
Pegoraro, M., see Checchia, P. ... A275 (1989) 49
Pegoraro, M., see Burns, M. ... A277 (1989) 154
Pegoraro, M., see DELPHI Forward ElectroMagnetic Group ... A279 (1989) 473
Peigneux, J.P., see IHEP–IISN–LANL–LAPP Collaboration ... A276 (1989) 652
Peisert, A., see Burns, M. ... A277 (1989) 154
Peisert, A., see Dijkstra, H. ... A277 (1989) 160
Pelfer, P., see Bari, G. ... A277 (1989) 11
Pelfer, P.G., see Dwurażny, A. ... A277 (1989) 176
Pella, P.J., see Watson, J.W. ... A272 (1988) 750
Pellar, L., see Anisimov, Yu.S. ... A273 (1988) 731
Pellegrini, C., Progress toward a soft X-ray FEL ... A272 (1988) 364
Pellegrini, C., see Dutt, S.K. ... A272 (1988) 564
Peng, Y., see Duinker, P. ... A273 (1988) 814
Peng, Y., see Adeva, B. ... A277 (1989) 187
Penna, T.J.P., see Gomes, P.R.S. ... A280 (1989) 395
Penner, S., R. Ayres, R. Cutler, P. Debenham, B.C. Johnson, E. Lindstrom, D. Mohr, J. Rose, M. Wilson, P. Sprangle and C.M. Tang, The NBS/NRL free electron laser facility ... A272 (1988) 73
Penso, G., see Aoki, S. ... A274 (1989) 64
Penso, G., see Angelini, C. ... A277 (1989) 132
Pensotti, S., see Ferri, G. ... A273 (1988) 123
Pensotti, S., see SICAPO Collaboration ... A279 (1989) 57
Pensotti, S., see SICAPO Collaboration ... A279 (1989) 66
Pentney, J.M., see Ansorge, R.E. ... A273 (1988) 826
Pentney, J.M., see Katvars, S.G. ... A276 (1989) 482
Pentney, J.M., see Alitti, J. ... A279 (1989) 364
Penttilä, S., see Hill, D. ... A277 (1989) 319
Penzo, A., see SICAPO Collaboration ... A279 (1989) 57
Perchonok, R., see Abe, F. ... A271 (1988) 387
Perec, A., see Kubo, H. ... A280 (1989) 133
Pereira, E.B. and H.E. Da Silva, Atmospheric radon measurements by electrostatic precipitation ... A280 (1989) 503
Perez-Mendez, V., S.N. Kaplan, G. Cho, I. Fujieda, S. Qureshi, W. Ward and R.A. Street, Hydrogenated amorphous silicon pixel detectors for minimum ionizing particles ... A273 (1988) 127

Perez-Mendez, V., see Del Guerra, A. ... A273 (1988) 500
Perez-Mendez, V., see Kaplan, S.N. ... A273 (1988) 611
Periale, L., see Bari, G. ... A277 (1989) 11
Periale, L., see Aglietta, M. ... A277 (1989) 23
Perkins, G.J., see Womersley, W.J. ... A278 (1989) 447
Perkins, L.J., G.H. Miley and B.G. Logan, Novel fusion energy conversion methods ... A271 (1988) 188
Perlado, J.M., see Velarde, G. ... A278 (1989) 105
Pernicka, M., see Schmiedmayer, J. ... A276 (1989) 250
Perotti, F., see Court, A.J. ... A273 (1988) 706
Perotto, E., see Bari, G. ... A277 (1989) 11
Perret-Gallix, D., see Boniface, J. ... A279 (1989) 376
Perret-Gallix, D., see Gonzalez-Mestres, L. ... A279 (1989) 382
Perrett, J.C., see Smith, N.J.T. ... A276 (1989) 622
Perrier, J., see Böhm, A. ... A273 (1988) 471
Perrin, C., see Merchez, F. ... A275 (1989) 133
Perrin, P., see Alitti, J. ... A273 (1988) 135
Perrodo, P., see Braunschweig, W. ... A275 (1989) 246
Perroud, J.P., see Bay, A. ... A271 (1988) 497
Persson, S., see Awes, T.C. ... A279 (1989) 479
Peruzzi, I., see Benvenuti, A.C. ... A276 (1989) 94
Peruzzo, L., see Bacchetta, N. ... A273 (1988) 172
Pesando, L., see Biino, C. ... A271 (1988) 417
Pescara, L., see Benvenuti, A.C. ... A276 (1989) 94
Peshekhonov, V.D., see Anisimov, Yu.S. ... A273 (1988) 731
Peskov, V., see Charpak, G. ... A277 (1989) 537
Peskov, V., G. Charpak, W. Dominik and F. Sauli, Investigation of light emission from a parallel-plate avalanche chamber filled with noble gases and with TEA, TMAE, and H_2O vapours at atmospheric pressure ... A277 (1989) 547
Pessard, H., see Berger, J. ... A279 (1989) 343
Pestrikov, D.V., On the deceleration of ions in a magnetized electron stream ... A274 (1989) 435
Petereit, E.P., see Napolitano, J.J. ... A274 (1989) 152
Peterreins, Th., see Von Feilitzsch, F. ... A271 (1988) 332
Peterreins, Th., see Pröbst, F. ... A280 (1989) 251
Petersen, H., see Kortboyer, S.W. ... A275 (1989) 435
Peterson, C., Track finding with neural networks ... A279 (1989) 537
Peterson, C.A., see Wüstenbecker, S. ... A279 (1989) 448
Peterson, H., see Coyle, P. ... A273 (1988) 858
Petiau, J., see Sainctavit, Ph. ... A273 (1988) 423
Petkov, P., W. Andrejtscheff, L.K. Kostov and L.G. Kostova, The elimination of prompt components in delayed coincidence time distributions ... A271 (1988) 617
Petković, T., G. Backenstoss, S. Cierjacks, M. Furić, M. Izycki, S. Ljungfelt, P. Salvisberg, M. Steinacher, H. Ullrich, P. Weber and H.-J. Weyer, A position-sensitive detector system with subnanosecond timing and its utilization in the measurement of pion absorption ... A273 (1988) 833
Petrera, S., see Angelini, C. ... A277 (1989) 132
Petroff, Y., see Prazeres, R. ... A272 (1988) 68
Petroff, Y., see Couprie, M.E. ... A272 (1988) 166
Petrolo, E., see UA1 Collaboration ... A279 (1989) 114
Petrolo, E., see UA1 Experiment ... A279 (1989) 169
Petrolo, E., see Cennini, P. ... A279 (1989) 350
Petrucci, F., see Calabrese, R. ... A277 (1989) 116
Petrukhin, A.I., see Antipov, Yu.M. ... A274 (1989) 452
Peuto, A.R., see Balabayev, A.N. ... A278 (1989) 148
Pevsner, A., see Ma, H. ... A274 (1989) 113
Pfeiffer, J., see Koch, H.R. ... A271 (1988) 375
Pfoh, A., see Vincent, P. ... A272 (1988) 660
Phillips, D., see Damerell, C.J.S. ... A275 (1989) 484
Phillips, R.M., History of the ubitron ... A272 (1988) 1
Phillips, T.J., see Abe, F. ... A271 (1988) 387
Pi, B., see D0 Calorimeter Group ... A280 (1989) 36
Piattelli, P., see Finocchiaro, P. ... A271 (1988) 557
Picchi, P., see Albrizio, R. ... A271 (1988) 449
Picchi, P., see Bari, G. ... A277 (1989) 11

Picchi, P., see Aglietta, M. A277 (1989) 23
Picchi, P., see Baldini-Celio, R. A280 (1989) 45
Piccolo, M., see Benvenuti, A.C. A276 (1989) 94
Pichard, B., see Aleksan, R. A274 (1989) 203
Pichler, A., see Böhm, A. A273 (1988) 471
Picozza, P., see Basini, G. A276 (1989) 367
Piekarz, H., see Abe, F. A271 (1988) 387
Piekarz, H., see D0 Calorimeter Group A280 (1989) 36
Piel Jr, W.F., see Pai, S. A278 (1989) 749
Piemontese, L., see Benvenuti, A.C. A276 (1989) 94
Pierre, F., see Aleksan, R. A273 (1988) 303
Pierre, F., see Aleksan, R. A274 (1989) 203
Pietarinen, E., A. Miotto, D. Pascoli and P. Rossi, An interconnect bus to link VME multiprocessor systems and host mainframes A276 (1989) 577
Pignatel, G., see Alessandrello, A. A279 (1989) 142
Pike, C., see Rutkowski, H.L. A278 (1989) 206
Pillai, C., see Wightman, J.A. A275 (1989) 281
Pillai, C., see Kessler, R.S. A275 (1989) 285
Pillai, C.T., see Barlow, D.B. A271 (1988) 471
Pimia, M., see Joyce, D. A279 (1989) 189
Pimiä, M., see Beingessner, S.P. A279 (1989) 253
Pindroh, A.L., see Quimby, D.C. A272 (1988) 192
Pindyurin, V.F., see Aristov, V.V. A274 (1989) 390
Pinfold, J.L., see Roney, J.M. A279 (1989) 236
Pingot, O., see Daubie, E. A273 (1988) 553
Pinori, C., see Checchia, P. A275 (1989) 49
Pinori, C., see DELPHI Forward ElectroMagnetic Group A279 (1989) 473
Pinsky, L., see Bari, G. A277 (1989) 11
Pinto Jr., O. and W.D. Gonzalez, X-ray measurements in the atmospheric environment of Brazil A280 (1989) 499
Piqué, A., J.M. Brennan, R. Darling, R. Tanczyn, D. Ballon and N. Benczer-Koller, Low temperature, 0.1 Tesla magnetometer A279 (1989) 579
Piredda, G., see De Winter, K. A277 (1989) 83
Piredda, G., see De Winter, K. A277 (1989) 170
Piredda, G., see CHARM II Collaboration A278 (1989) 670
Piroué, P.A., see Bakken, J.A. A275 (1989) 81
Piroue, P.A., see Bakken, J.A. A280 (1989) 25
Pisani, M., see SICAPO Collaboration A279 (1989) 57
Piskarev, I.M., see Alimov, A.S. A278 (1989) 379
Pissanetzky, S., see Fan, M. A272 (1988) 606
Pistilli, P., see Aoki, S. A274 (1989) 64
Pitas, A., see Bari, G. A277 (1989) 11
Pitman, D., see Adler, J. A276 (1989) 42
Pitt, R.E., see Womersley, W.J. A278 (1989) 447
Piuz, F., see Aoki, S. A274 (1989) 64
Pizzini, S. and F. Allegretti, Structural characterisation of bismuth germanate single crystals A279 (1989) 402
Pizzuto, D., see Clark, A.R. A279 (1989) 243
Plaag, R.E. and J.P. Rutherfoord, A large, high-speed memory buffer for high energy physics data A273 (1988) 177
Placidi, M. and R. Rossmanith, e^+e^- polarimetry at LEP A274 (1989) 79
Planinić, J. and Z. Faj, The equilibrium factor F between radon and its daughters A278 (1989) 550
Planner, C.W., see Martin, R.L. A278 (1989) 151
Plasil, F., see Awes, T.C. A279 (1989) 479
Plasil, F., see Young, G.R. A279 (1989) 503
Platov, K.Yu., see Alimov, A.S. A278 (1989) 379
Platz, P., see Coulon, J.P. A274 (1989) 291
Pless, I.A., see Bari, G. A277 (1989) 11
Pless, I.A., see Moromisato, J.H. A274 (1989) 177
Plumley, M.R., see Watson, J.W. A272 (1988) 750
Plunkett, R., see Abe, F. A271 (1988) 387
Plyaskin, V., see Chen, C. A272 (1988) 713
Plyaskin, V., see L3 Collaboration A275 (1989) 71
Pochman, J., see Anisimov, Yu.S. A273 (1988) 731

Pochodzalla, J., see Murakami, T. ... A275 (1989) 112
Pohl, M., see Böhm, A. ... A273 (1988) 471
Poinsignon, J., see Aleksan, R. ... A274 (1989) 203
Poinsignon, L., see Aleksan, R. ... A273 (1988) 303
Poiret, C., see Daubie, E. ... A273 (1988) 553
Pojidaev, V., see L3 Collaboration ... A275 (1989) 71
Polansky, W.M., Heavy-ion fusion in the USA ... A278 (1989) 1
Polenz, S., see Schmidt, B. ... A273 (1988) 488
Polenz, S., see Heintze, J. ... A277 (1989) 29
Polgrossi, O., see Artusi, G. ... A279 (1989) 523
Policarpo, A.J.P.L., see De Fraga, F.A.F. ... A272 (1988) 921
Policarpo, A.J.P.L., see De Fraga, F.A.F. ... A279 (1989) 339
Polychronakos, V.A., see Giubellino, P. ... A275 (1989) 89
Pomansky, A.A., Physics underground at Baksan ... A271 (1988) 254
Pomansky, A.A., see Kuzminov, V.V. ... A271 (1988) 257
Pomerantz, M.A., see Smith, N.J.T. ... A276 (1989) 622
Pondrom, L., see Abe, F. ... A271 (1988) 387
Pope, B.G., see D0 Calorimeter Group ... A280 (1989) 36
Popov, V.P., Precision method for automatic calibration and digital correction of high-accuracy digital-to-analog converters in the experiment ... A274 (1989) 269
Poropat, P., see Checchia, P. ... A275 (1989) 49
Poropat, P., see DELPHI Forward ElectroMagnetic Group ... A279 (1989) 473
Porter, J., see Engelage, J. ... A277 (1989) 431
Porto, P., see Aramaki, E.A. ... A280 (1989) 597
Poskanzer, A.M., see Awes, T.C. ... A279 (1989) 479
Posnecker, K.U., see Kraner, H.W. ... A279 (1989) 266
Posocco, M., see Gasparini, F. ... A273 (1988) 485
Possnert, G., see Whitlow, H.J. ... A272 (1988) 925
Postema, H., see Duinker, P. ... A273 (1988) 814
Poth, H., see Schuch, R. ... A276 (1989) 445
Pothier, E., see Engels Jr, E. ... A279 (1989) 272
Potzel, W., see Adlassnig, W. ... A277 (1989) 485
Poulard, G., see Aoki, S. ... A274 (1989) 64
Poulet, M., see Berger, J. ... A279 (1989) 343
Povh, B., see Heintze, J. ... A277 (1989) 29
Powell, C., J. Nering, B.C. Maglich and A. Wilmerding, Studies of physics conditions for aneutronic and/or nonradioactive nuclear energy generation in ^{3}He-induced fission of ^{6}Li and ^{3}He fusion in a steady state migma plasma ... A271 (1988) 41
Powell, C., see Nering, J. ... A271 (1988) 155
Pozdnyakov, V.N., see Filatova, N.A. ... A272 (1988) 707
Pozdnyakov, V.N., see Filatova, N.A. ... A279 (1989) 518
Praca, R., see Aleksan, R. ... A273 (1988) 303
Prasuhn, D., see Hinterberger, F. ... A275 (1989) 239
Prasuhn, D., see Hinterberger, F. ... A279 (1989) 413
Pratt, R.H., see Dong, Qi ... A280 (1989) 189
Pratt, R.H., see Roy, S.C. ... A280 (1989) 198
Prazeres, R., J.M. Ortega, C. Bazin, M. Bergher, M. Billardon, M.E. Couprie, M. Velghe and Y. Petroff, Coherent harmonic generation in the vacuum ultraviolet spectral range on the storage ring ACO ... A272 (1988) 68
Prazeres, R., see Couprie, M.E. ... A272 (1988) 166
Prebys, E., see Engels Jr, E. ... A279 (1989) 272
Preger, M.A., see Cavallo, N. ... A272 (1988) 64
Preisenberger, E., see Heinzl, J. ... A271 (1988) 259
Preisenberger, E., G. Korschinek, E. Nolte and H. Morinaga, Determination of lead concentration in Allchar lorandite ... A271 (1988) 266
Prentice, J.D., see ARGUS Collaboration ... A275 (1989) 1
Prete, G., see Bassato, G. ... A275 (1989) 340
Price, D.R., see Barber, G.J. ... A279 (1989) 212
Price, J.W., see Kessler, R.S. ... A275 (1989) 285
Pritchard, T.W., see Carter, J.R. ... A278 (1989) 725
Pritchard, T.W., see Roney, J.M. ... A279 (1989) 236
Privitera, P., see Camporesi, T. ... A277 (1989) 230

Pröbst, F., see Von Feilitzsch, F. A271 (1988) 332
Pröbst, F., H. Kraus, Th. Peterreins and F. Von Feilitzsch, Recent developments in detector research A280 (1989) 251
Probst, H.J., see Borchert, G.L. A274 (1989) 507
Produit, N., see Böhm, A. A273 (1988) 471
Profio, A.E., see Ofek, R. A278 (1989) 513
Prokofiev, O., see Adeva, B. A277 (1989) 187
Prokopyev, O.V., see Gromov, V.V. A280 (1989) 405
Prokoshkin, Yu.D., see IHEP–IISN–LANL–LAPP Collaboration A276 (1989) 652
Prokoviev, O. and P.G. Seiler, UV laser beam profile measurement by means of the photoelectric effect on the wires of a proportional chamber (*Letter to the Editor*) A278 (1989) 608
Prosnitz, D., see Throop, A.L. A272 (1988) 15
Protopopescu, S., see D0 Calorimeter Group A280 (1989) 36
Proudfoot, J., see Abe, F. A271 (1988) 387
Prussin, S.G., see Sailor, W.C. A274 (1989) 305
Przybyla, A., see Albrecht, R. A276 (1989) 131
Puimedon, J., see Larrea, A. A273 (1988) 218
Puliti, P., see Magnani, M. A271 (1988) 611
Punzi, G., see Abe, F. A271 (1988) 387
Purcell, M., see Hill, D. A277 (1989) 319
Pusterla, M., see Leo, M. A278 (1989) 629
Pynn, R., see Robinson, R.A. A272 (1988) 758
Pyrlik, J., see Bari, G. A277 (1989) 11

Qi, L.R., see Cui, M.Q. A277 (1989) 673
Qian, J.M., see Adeva, B. A277 (1989) 187
Qian, S., see Bari, G. A277 (1989) 11
Quarles, C.A., see Lehtihet, H.E. A280 (1989) 202
Quarrie, D., see Abe, F. A271 (1988) 387
Quercigh, E., see WA76 Collaboration A274 (1989) 165
Quercigh, E., see Angelini, C. A277 (1989) 132
Quimby, D.C., K.E. Robinson, R.G. Berger, S.C. Gottschalk, A.L. Pindroh, J.M. Slater and A.S. Valla, Retractable-magnet hybrid undulator A272 (1988) 192
Quin, P.A., see Holslin, D. A274 (1989) 207
Qureshi, S., see Perez-Mendez, V. A273 (1988) 127
Qureshi, S., see Kaplan, S.N. A273 (1988) 611

Raatz, J.E., see Jones, C.M. A276 (1989) 413
Rabinowitz, D., see Simpson, J.A. A279 (1989) 611
Radack, D.J., see Granatstein, V.L. A272 (1988) 110
Radeka, V., P. Rehak, S. Rescia, E. Gatti, A. Longoni, M. Sampietro, G. Bertuccio, P. Holl, L. Strüder and J. Kemmer, Front-end electronics on high resistivity fully depleted silicon A275 (1989) 536
Radermacher, E., see UA1 Collaboration A279 (1989) 83
Rae, S.C. and S.W. Wilkins, The calculation of diffracted-beam profiles for *n*-reflection channel-cut monochromators A274 (1989) 560
Rae, W.D.M., see Woods, P.J. A276 (1989) 195
Ragan, K., see Abe, F. A271 (1988) 387
Ragazzon, R., see Checchia, P. A275 (1989) 49
Ragazzon, R., see DELPHI Forward ElectroMagnetic Group A279 (1989) 473
Ragusa, F., see Camin, D.V. A279 (1989) 195
Rahal-Callot, G., see Clark, A.R. A279 (1989) 243
Raja, R., see D0 Calorimeter Group A280 (1989) 36
Rajagopalan, S., see Clark, A.R. A279 (1989) 243
Rajeev, M.R., see Apte, A.R. A273 (1988) 403
Rambaldi-Frenkel, A., see De Winter, K. A277 (1989) 83
Rambaldi-Frenkel, A., see De Winter, K. A277 (1989) 170
Ramello, L., see Aoki, S. A274 (1989) 64
Ramello, L., see Giubellino, P. A275 (1989) 89
Ramello, L., see SICAPO Collaboration A279 (1989) 57
Ramello, L., see Giubellino, P. A279 (1989) 259
Ramian, G. and L. Elias, The new UCSB compact far-infrared FEL A272 (1988) 81
Ramsden, D., see Zhang, S.N. A273 (1988) 673

Ramsden, D., see Dean, A.J. ... A273 (1988) 711
Ramsey, B.D. and P.C. Agrawal, Quench gases for xenon- (and krypton-) filled proportional counters ... A273 (1988) 326
Ramsey, B.D., see Agrawal, P.C. ... A273 (1988) 331
Ramsey, B.D., see Skinner, G.K. ... A273 (1988) 682
Ramsey, B.D., see Agrawal, P.C. ... A277 (1989) 557
Ramsey, B.D. and P.C. Agrawal, Xenon-based Penning mixtures for proportional counters ... A278 (1989) 576
Rancoita, P.G., see Ferri, G. ... A273 (1988) 123
Rancoita, P.G., see SICAPO Collaboration ... A279 (1989) 57
Rancoita, P.G., see SICAPO Collaboration ... A279 (1989) 66
Rancoita, P.G., see Borchi, E. ... A279 (1989) 277
Rangacharyulu, C., see Harada, M. ... A276 (1989) 451
Rangan, L.K., E.I. Shibata and J.S. Loos, Light-pipe optical joints made from silicone disks ... A276 (1989) 496
Ranieri, A., see Albrizio, R. ... A271 (1988) 449
Ranucci, G., see Camin, D.V. ... A279 (1989) 195
Rao, D.V., Measurements of photoelectric cross sections for X-ray and γ-ray photons at K, L_1 and L_3 edges in Ce, Gd, Dy, Er, Yb and Pb: an analysis of the derived shell ratios ... A280 (1989) 222
Rapaport, J., see McClelland, J.B. ... A276 (1989) 35
Rapp, P., see Artusi, G. ... A279 (1989) 523
Raso, G., see Albrizio, R. ... A271 (1988) 449
Ratcliff, B., see Coyle, P. ... A273 (1988) 858
Rathbone, K.A., see Brammer, R.C. ... A271 (1988) 678
Rathmell, R.D., see Jones, C.M. ... A276 (1989) 413
Rauschnabel, K., see Braunschweig, W. ... A275 (1989) 246
Ravn, H., see Bäcklund, Y. ... A279 (1989) 555
Ravon, J.P., see Ridon, J. ... A272 (1988) 629
Ray, R. and J.L. Rosen, An adjustable monochromatic beta source ... A273 (1988) 13
Raymond, C., see Leblanc, M. ... A273 (1988) 583
Razis, P., see Adeva, B. ... A277 (1989) 187
Razis, P., see Fabbretti, R. ... A280 (1989) 13
Razuvaev, E.A., see Akopyan, M.V. ... A272 (1988) 855
Re, V., see Manfredi, P.F. ... A274 (1989) 477
Re, V., see Lutz, G. ... A277 (1989) 194
Re, V., see Buttler, W. ... A279 (1989) 204
Read, A., see Olsen, A. ... A273 (1988) 565
Rebel, H., see Gils, H.J. ... A276 (1989) 151
Rebel, H., see Gils, H.J. ... A276 (1989) 169
Rebourgeard, P., see Blumenfeld, H. ... A278 (1989) 619
Redaelli, N., see Borer, K. ... A273 (1988) 605
Redaelli, N., see Heijne, E.H.M. ... A273 (1988) 615
Redaelli, N., see WA76 Collaboration ... A274 (1989) 165
Redaelli, N., see Burns, M. ... A277 (1989) 154
Redaelli, N., see Dijkstra, H. ... A277 (1989) 160
Redaelli, N., see Ansari, R. ... A279 (1989) 388
Redlinger, G., see Abe, F. ... A271 (1988) 387
Rees, G.H., see Martin, R.L. ... A278 (1989) 151
Reeve, P., see Abegg, R. ... A273 (1988) 43
Rehak, P., see Gatti, E. ... A273 (1988) 865
Rehak, P., see Gatti, E. ... A274 (1989) 469
Rehak, P., see Radeka, V. ... A275 (1989) 536
Rehm, K.E. and F.L.H. Wolfs, A focal plane detector for reactions with medium weight projectiles ... A273 (1988) 262
Rehm, K.E., see Paul, M. ... A277 (1989) 418
Rehme, C., see CP-LEAR Collaboration ... A279 (1989) 285
Reich, H., see Völk, H.-G. ... A279 (1989) 443
Reid, M.B., see Fisher, A.S. ... A272 (1988) 89
Reid, M.B., J. Feinstein, R.H. Pantell and A.S. Fisher, Gain in the gas-loaded FEL ... A272 (1988) 268
Reid, R.J.O., see Smith, N.J.T. ... A276 (1989) 622
Reif, R., see Coyle, P. ... A273 (1988) 858
Reiff, J.E., M.A.C. Hotchkis, D.M. Moltz, T.F. Lang, J.D. Robertson and J. Cerny, A fast in-beam recoil catcher wheel and the observation of beta-delayed two-proton emission from ^{31}Ar ... A276 (1989) 228
Reinartz, R., see Kurz, R. ... A273 (1988) 273
Reinhard, J., see Streubel, G. ... A274 (1989) 194

Reinsch, W., see ARGUS Collaboration A275 (1989) 1
Reiser, M., High-current beam transport A278 (1989) 138
Reiser, M., see Kehne, D. A278 (1989) 194
Reiser, M., see Rudd, H. A278 (1989) 198
Rekveldt, M.Th., see Kraan, W.H. A276 (1989) 521
Ren, D., see Böhm, A. A273 (1988) 471
Ren Jianping, see Debertin, K. A278 (1989) 541
Renaud, G., see Sainctavit, Ph. A273 (1988) 423
Renieri, A., see Walsh, J. A272 (1988) 132
Renieri, A., see Gallardo, J.C. A272 (1988) 516
Rensing, P., see Coyle, P. A273 (1988) 858
Rescia, S., see Radeka, V. A275 (1989) 536
Rettig, W., H. Wiggenhauser, T. Hebert and A. Ding, Time- and frequency domain spectroscopy using synchrotron radiation A277 (1989) 677
Retzlaff, G., see Shin, Y.M. A274 (1989) 227
Retzlaff, G., see Beck, D. A277 (1989) 323
Reucroft, S., see Davis, A.J. A276 (1989) 347
Reul, Ch., see Anders, B. A277 (1989) 56
Reusch, S., see Mokler, P.H. A278 (1989) 93
Revol, J.-P., see UA1 Collaboration A279 (1989) 83
Rewiersma, P., see Duinker, P. A273 (1988) 814
Reyes Cortes, S.D.A., see Dos Santos, J.M.F. A280 (1989) 288
Reyna-Almandos, J.G., see Trigueiros, A. A280 (1989) 589
Reynaud, S., see Ansorge, R.E. A273 (1988) 826
Reynoldson, J., see Battistoni, G. A276 (1989) 140
Rezmer, R., see Abe, F. A271 (1988) 387
Rhoades, J., see Abe, F. A271 (1988) 387
Ribanský, I., M. Morháč and I. Turzo, A simple CAMAC based data acquisition and reduction system (DARS) (*Letter to the Editor*) A271 (1988) 704
Ribeiro, J.P., see Jesus, A.P. A280 (1989) 370
Ribitzki, G., see Ulrich, A. A278 (1989) 72
Riccati, L., see Aoki, S. A274 (1989) 64
Riccati, L., see Giubellino, P. A275 (1989) 89
Riccati, L., see SICAPO Collaboration A279 (1989) 57
Riccati, L., see Giubellino, P. A279 (1989) 259
Ricci, M., see Basini, G. A276 (1989) 367
Richard, A., see Deutsch, C. A278 (1989) 38
Richard, F., see Cuevas, J. A274 (1989) 459
Richards, K.S., A.D. Rush, D.T. Clarke and W.J. Myring, Comparison of synchrotron and laser sources in X-ray contact microscopy of metal-contaminated biological tissue A272 (1988) 889
Richman, B.A., see Bhowmik, A. A272 (1988) 10
Richman, B.A., see Curtin, M.S. A272 (1988) 187
Richter, A., see Aab, V. A272 (1988) 53
Richter, A.W., B. Alberti, D. Eyl, G. Köbschall, A. Liesenfeld, K. Röhrich, Ch. Schmitt and V.H. Walther, An ion-implanted semiconductor strip detector for low energy pion-production experiments A274 (1989) 249
Rickenbach, R., see CPLEAR Collaboration A279 (1989) 305
Ridon, J., J.P. Ravon and J. Borzeix, Calcul numérique des trajectoires ioniques dans une source de type Nier utilisant un jet atomique transversal. Etude du rendement et correction de la discrimination A272 (1988) 629
Riedel, G., see Wick, K. A277 (1989) 251
Riege, H., see CHARM II Collaboration A278 (1989) 670
Riege, H., see Gundel, H. A280 (1989) 1
Riepe, G., see Koch, H.R. A271 (1988) 375
Ries, H., see Drees, A. A273 (1988) 793
Ries, H., see Breskin, A. A273 (1988) 798
Righetti, M.A., D. Hernandez and F. Spano, Determination of the counting efficiency of phoswich detectors for the assessment of internal contamination in lungs and lymph nodes by using a mathematical model A280 (1989) 514
Rigoni, H., see Baldini-Celio, R. A280 (1989) 45
Riisager, K., see Bäcklund, Y. A279 (1989) 555
Rijssenbeek, M., see Clark, A.R. A279 (1989) 243
Rimondi, F., see Artusi, G. A279 (1989) 523
Rinaudo, G., see Checchia, P. A275 (1989) 49

Rinaudo, G., see DELPHI Forward ElectroMagnetic Group ... A279 (1989) 473
Rindi, A., F. Celani, M. Lindozzi and S. Miozzi, Underground neutron flux measurement ... A272 (1988) 871
Ripamonti, G., see Gatti, E. ... A276 (1989) 588
Ristori, L., see Abe, F. ... A271 (1988) 387
Ristori, L., see Dell'Orso, M. ... A278 (1989) 436
Ritchie, E.F., see Armitage, J.C. ... A271 (1988) 588
Ritchie, J.L., see Cousins, R.D. ... A277 (1989) 517
Ritter, H.G., see Awes, T.C. ... A279 (1989) 479
Ritzén, B., see Bargholtz, Chr. ... A279 (1989) 668
Rivallant, R., see Sainctavit, Ph. ... A273 (1988) 423
Rivet, M.-F., see Weyrich, K. ... A278 (1989) 52
Rivet, M.F., see Deutsch, C. ... A278 (1989) 38
Rivoiron, C., see Francke, T. ... A279 (1989) 317
Riyopoulos, S. and C.M. Tang, Stochastic electron detrapping in FELs caused by sidebands ... A272 (1988) 448
Riyopoulos, S., P. Sprangle, C.M. Tang and A. Ting, Reflection matrix for optical resonators in FEL oscillators A272 (1988) 543
Rizzo, C., see Del Guerra, A. ... A273 (1988) 500
Robert, J.P., see Chianelli, C. ... A273 (1988) 245
Roberts, K., see Lewis, R. ... A273 (1988) 773
Roberts, K., see Begalli, M. ... A276 (1989) 105
Roberts, K., see Droege, T.F. ... A279 (1989) 359
Roberts, K., see D0 Calorimeter Group ... A280 (1989) 36
Robertson, B.C., see Heaton, R. ... A276 (1989) 529
Robertson, J.D., see Reiff, J.E. ... A276 (1989) 228
Robertson, S.H., B. Alper, M.J. Butler and A.A. Newton, Equilibrium control in the HBTX1C reversed field pinch ... A279 (1989) 599
Robertson, W.J., see Toothacker, W.S. ... A273 (1988) 97
Robinson, H.G., W.M. Hooke, H.W. Lewis, K.C. Felder and T.B. Clegg, Rf cavity design and performance for the TUNL polarized ion source ... A278 (1989) 655
Robinson, K.E., see Quimby, D.C. ... A272 (1988) 192
Robinson, R.A. and R. Pynn, On the kinematics of crystal analyzer spectometers at pulsed neutron sources ... A272 (1988) 758
Robmann, P., C.A. Meyer, K. Bösiger, S. Egli, J. Koch, B.A. Schmid, U. Straumann, P. Truöl, R. Eichler and R. Holzreuter, Construction and analysis of a prototype z drift chamber for the H1 experiment ... A277 (1989) 368
Rochester, G.K., see Sumner, T.J. ... A273 (1988) 701
Rockett, P., see Bateman, J.E. ... A273 (1988) 767
Roda, C., see Angelini, C. ... A277 (1989) 132
Rodnov, Yu.V., see IHEP–IISN–LANL–LAPP Collaboration ... A276 (1989) 652
Rodrigo, T., see UA1 Collaboration ... A279 (1989) 114
Roe, B.P., see Chen, C. ... A272 (1988) 713
Roe, B.P., see L3 Collaboration ... A275 (1989) 71
Roe, N.A., see Bartha, G.T. ... A275 (1989) 59
Roeber, F., see Ma, H. ... A274 (1989) 113
Rogers, L.C., A high precision peak sensing circuit for measuring the integral linearity of nuclear pulse amplifiers ... A279 (1989) 573
Rohaly, T., see Abe, F. ... A271 (1988) 387
Rohatgi, R., H.A. Schwettman, T.I. Smith and R.L. Swent, The SCA/FEL program: operation in the infrared, visible and ultraviolet ... A272 (1988) 32
Rohlf, J., see UA1 Collaboration ... A279 (1989) 83
Rohrbach, F., see Bari, G. ... A277 (1989) 11
Röhrich, K., see Richter, A.W. ... A274 (1989) 249
Rolfs, C., see Seuthe, S. ... A272 (1988) 814
Rolfs, C., see Neldner, K. ... A274 (1989) 419
Rolfs, C., see Wüstenbecker, S. ... A279 (1989) 448
Romaguera, A., see Ortlepp, H.-G. ... A276 (1989) 500
Roman, S., see Karban, O. ... A274 (1989) 4
Romano, F., see Albrizio, R. ... A271 (1988) 449
Romano, G., see Aoki, S. ... A274 (1989) 64
Romanowski, T.A., see Durkin, L.S. ... A277 (1989) 386
Romero, A., see Checchia, P. ... A275 (1989) 49
Romero, A., see DELPHI Forward ElectroMagnetic Group ... A279 (1989) 473
Romero, J.L., see Ford, T.D. ... A274 (1989) 253
Romero, J.L., see Engelage, J. ... A277 (1989) 431

Romero, L., see Adeva, B. A277 (1989) 187
Ronchese, P., see DELPHI Forward ElectroMagnetic Group A279 (1989) 473
Rondinini, C., see Bakken, J.A. A280 (1989) 25
Roney, J.M., J.C. Armitage, R.K. Carnegie, G.L. Giles, R.J. Hemingway, A.C. McPherson, J.L. Pinfold, J. Waterhouse, L. Godfrey, C.K. Hargrove, J.R. Carter, P.A. Elcombe, J.C. Hill, A.A. Carter, S.L. Lloyd and T.W. Pritchard, The OPAL vertex prototype A279 (1989) 236
Rong G., see Damerell, C.J.S. A275 (1989) 484
Rongoni, F., see Basini, G. A276 (1989) 367
Roodman, A., see Abe, F. A271 (1988) 387
Rook, A., see Mels, W.A. A273 (1988) 689
Roosen, R., see Aoki, S. A274 (1989) 64
Ros, E., see ZEUS Calorimeter Group A274 (1989) 134
Ros, E., see Del Peso, J. A276 (1989) 456
Rosa, G., see Aoki, S. A274 (1989) 64
Rosanov, A., see De Winter, K. A277 (1989) 83
Rosanov, A., see De Winter, K. A277 (1989) 170
Rosanov, A., see CHARM II Collaboration A278 (1989) 670
Rosato, E., K X-ray emission cross sections by proton bombardment A280 (1989) 365
Rose, J., see Penner, S. A272 (1988) 73
Rosen, J.L., see Ray, R. A273 (1988) 13
Rosenbluth, M., Introductory remarks A271 (1988) 1
Rosenbluth, M., see Bourianoff, G. A272 (1988) 340
Rosenbluth, M.N., see Berk, H.L. A271 (1988) 107
Rosenson, L., see Benvenuti, A.C. A276 (1989) 94
Röser, U., see Böhm, A. A273 (1988) 471
Rosner, G., see Winkler, R. A274 (1989) 359
Rossi, A.M., see Artusi, G. A279 (1989) 523
Rossi, L., see WA76 Collaboration A274 (1989) 165
Rossi, P., see Pietarinen, E. A276 (1989) 577
Rossmanith, R., see Placidi, M. A274 (1989) 79
Rosso, E., see Kalkanis, G. A275 (1989) 267
Rost, M. and R. Uhlenberg, The 370/E IBM emulator as an add-on processor to a DEC VAX host A273 (1988) 319
Rotelli, P., see Bari, G. A277 (1989) 11
Rothberg, J.E., see Bartha, G.T. A275 (1989) 59
Roussel, G., see Aleksan, R. A273 (1988) 303
Rovelli, T., see Camporesi, T. A277 (1989) 230
Roy, A., see Dasgupta, S. A276 (1989) 25
Roy, S.C., S.K. Sen Gupta, L. Kissel and R.H. Pratt, Rayleigh scattering from ions near threshold A280 (1989) 198
Roy, S.C., see Santra, L. A280 (1989) 402
Roy, T., S.J. Watts and D. Wright, Radiation damage effects on imaging charge coupled devices A275 (1989) 545
Rozanov, A., see Artamonov, A. A279 (1989) 531
Rozet, J.P., see Wohrer, K. A274 (1989) 394
Rozmarynowski, P.S., see Artusi, G. A279 (1989) 523
Ruan, J.-Z., see Kubota, S. A273 (1988) 645
Rubbia, C., see Buckley, E. A275 (1989) 364
Rubbia, C., Particle accelerator developments and their applicability to ignition devices for inertial fusion A278 (1989) 253
Rubbia, C., see UA1 Collaboration A279 (1989) 83
Rubbia, C., see UA1 Collaboration A279 (1989) 114
Rubbia, C., see Beingessner, S.P. A279 (1989) 253
Rubin, D.L., see Shu, Q.S. A278 (1989) 329
Rubinskaya, L.A., see Yeremin, A.V. A274 (1989) 528
Rubio, J.A., see Adeva, B. A277 (1989) 187
Rubio, M., see Fernández, J.E. A280 (1989) 539
Rubio, M., see Fernández, J.E. A280 (1989) 546
Ruchti, R.C., see Toothacker, W.S. A273 (1988) 97
Rück, D.M., see Spädtke, P. A278 (1989) 643
Rückert, M., see Ebel, F. A272 (1988) 626
Ruckstuhl, W., see Bakken, J.A. A275 (1989) 81
Ruckstuhl, W., see Bakken, J.A. A280 (1989) 25
Rudd, H., see Haber, I. A278 (1989) 174
Rudd, H., I. Haber, C.R. Chang, D. Kehne, K. Low, M. Reiser and T. Shea, Comparison of simulation, theory

and measurement for the Maryland transport experiment A278 (1989) 198
Ruddick, K., see Engels Jr, E. A279 (1989) 272
Rudskoy, I.V., see Balabayev, A.N. A278 (1989) 148
Ruegger, D., see Bay, A. A271 (1988) 497
Ruffolo, D., see Leske, R.A. A277 (1989) 627
Ruggieri, F., see Albrizio, R. A271 (1988) 449
Ruggieri, F., see Aoki, S. A274 (1989) 64
Ruiz, A., see Cuevas, J. A274 (1989) 459
Ruiz, A., see Checchia, P. A275 (1989) 49
Ruiz, A., see DELPHI Forward ElectroMagnetic Group A279 (1989) 473
Ruiz, C.L., see Engelage, J. A277 (1989) 431
Rule, D.W., see Maruyama, X.K. A272 (1988) 237
Rush, A.D., see Richards, K.S. A272 (1988) 889
Rush, C.J., see Durkin, L.S. A277 (1989) 386
Rushbrooke, J.G., see Ansorge, R.E. A273 (1988) 826
Rushbrooke, J.G., see Alitti, J. A279 (1989) 364
Rushbrooke, J.G. and R.E. Ansorge, Optical fibre readout and performance of small scintillating crystals for a fine-grained gamma detector A280 (1989) 83
Russ, J.S., Detector considerations at high luminosity hadron colliders A279 (1989) 29
Russ, T., see Beck, D. A277 (1989) 323
Russo, C., see Beck, D. A277 (1989) 323
Russo, G., On the determination of the shape parameters of the γ-ray multiplicity distribution with a low efficiency multicounter system (*Letter to the Editor*) A277 (1989) 682
Rust, B.W., see Duvall, K.C. A272 (1988) 866
Rustichelli, F., see Coppola, R. A280 (1989) 583
Ruthenberg, A., see Hunt, J.E. A274 (1989) 597
Rutherfoord, J.P., see Plaag, R.E. A273 (1988) 177
Rutkowski, H.L., A. Faltens, S. Humphries, D. Vanecek, C. Pike, R.M. Johnson and E.A. Meyer, Progress on a 2 MV injector for a scaled HIF accelerator experiment A278 (1989) 206
Ryabinin, M., see Artamonov, A. A279 (1989) 531
Ryassny, V.G., see Bari, G. A277 (1989) 11
Ryazanov, G.V., see Balabayev, A.N. A278 (1989) 148
Ryazhskaya, O.G., see Bari, G. A277 (1989) 11
Rybarcyk, L.J., see McClelland, J.B. A276 (1989) 35
Rydehell, M., see Lavergne-Gosselin, L. A276 (1989) 210
Rydqvist, T., see Baillon, P. A277 (1989) 338
Ryge, P., see Drndarevic, V. A277 (1989) 532
Rykaczewski, H., see Adeva, B. A277 (1989) 187
Rykalin, V.I., see IHEP–IISN–LANL–LAPP Collaboration A276 (1989) 652
Ryltsov, V., see ARGUS Collaboration A275 (1989) 1
Ryves, T.B., see Kolkowski, P. A276 (1989) 539
Ryzhov, V.N., see Filatova, N.A. A272 (1988) 707
Ryzhov, V.N., see Filatova, N.A. A279 (1989) 518
Rzaev, R.A., see Frolov, A.M. A280 (1989) 7

Saavedra, O., see Yamashita, Y. A274 (1989) 584
Saavedra, O., see Bari, G. A277 (1989) 11
Saavedra, O., see Aglietta, M. A277 (1989) 17
Saavedra, O., see Aglietta, M. A277 (1989) 23
Sacchetti, F., see Cilloco, F. A276 (1989) 401
Sachwitz, M., see Böhm, A. A273 (1988) 471
Sachwitz, M., see Bosseler, K. A277 (1989) 121
Sacker, D., see CP-LEAR Collaboration A279 (1989) 285
Sadovsky, A.B., see Filatova, N.A. A272 (1988) 707
Sadovsky, A.B., see Filatova, N.A. A279 (1989) 518
Sadovsky, S.A., see IHEP–IISN–LANL–LAPP Collaboration A276 (1989) 652
Sadowski, E., see UA1 Collaboration A279 (1989) 83
Sadrozinski, H.F.-W., A. Seiden and A.J. Weinstein, Tracking at 1 TeV A277 (1989) 92
Sadrozinski, H.F.-W., A. Seiden and A.J. Weinstein, Tracking at the SSC/LHC A279 (1989) 223
Sagara, K., see Koori, N. A278 (1989) 737
Saich, M.R., see Medcalf, T. A277 (1989) 358

Saigusa, T. and S. Shimizu, Expectation of LET for a tritium beta particle ... A280 (1989) 195
Sailor, W.C. and S.G. Prussin, A model for electron/ion recombination in ionization chambers ... A274 (1989) 305
Sailor, W.C., see Byrd, R.C. ... A274 (1989) 494
Sailor, W.C., R.C. Byrd and Y. Yariv, Calculation of the pulse-height response of organic scintillators for neutron energies $28 \ll E_n \ll 492$ MeV ... A277 (1989) 599
Sainctavit, Ph., J. Petiau, A. Manceau, R. Rivallant, M. Belakhovsky and G. Renaud, A two mirror device for harmonic rejection ... A273 (1988) 423
Saito, H. and Yin Yuan Zhao, Linear theory of generalized circular free electron lasers ... A272 (1988) 319
Saito, K., see Yamashita, Y. ... A274 (1989) 584
Saito, Y., see Shidara, T. ... A279 (1989) 423
Saitta, B., see Oliver, W.P. ... A276 (1989) 371
Sakae, H., see Homma, Y. ... A274 (1989) 183
Sakae, T., see Ohgaki, H. ... A273 (1988) 522
Sakai, H., see Motobayashi, T. ... A271 (1988) 491
Sakai, N., see Shiotani, N. ... A275 (1989) 447
Sakamoto, H., see Amako, K. ... A272 (1988) 687
Sakamoto, S., see Homma, Y. ... A274 (1989) 183
Sakano, M., see Sumiyoshi, T. ... A271 (1988) 432
Sakuragi, S., see Kubota, S. ... A273 (1988) 645
Sakurai, M., see Shiotani, N. ... A275 (1989) 447
Sala, O., Development and application of the electrostatic accelerator ... A280 (1989) 263
Sala, P., see Boiano, C. ... A275 (1989) 329
Salatić, D. and S. Deušić, The possibility of concentrating thallium minerals from the Allchar deposit ... A271 (1988) 301
Sale, K.E., see Islam, M.S. ... A276 (1989) 647
Salehpour, M., see Hunt, J.E. ... A274 (1989) 597
Saletan, E., see Bari, G. ... A277 (1989) 11
Saletan, E.J., see Moromisato, J.H. ... A274 (1989) 177
Salgado, J., F.G. Carvalho, C. Oliveira and A. Ambrósio, Some uses of radioisotope techniques in Portugal ... A280 (1989) 530
Salgado, J.F., see Margaça, F.M.A. ... A274 (1989) 606
Salicio, J., see Adeva, B. ... A277 (1989) 187
Salmon, G.L., see Harnew, N. ... A279 (1989) 290
Salsedo, S., see Bakken, J.A. ... A275 (1989) 81
Salvadori, P., see Bari, G. ... A277 (1989) 11
Salvatori, I., see Basini, G. ... A276 (1989) 367
Salvisberg, P., see Petković, T. ... A273 (1988) 833
Salzborn, E., see Melchert, F. ... A278 (1989) 65
Salziger, R., see Borchert, G.L. ... A274 (1989) 507
Samoylenko, V.D., see IHEP–IISN–LANL–LAPP Collaboration ... A276 (1989) 652
Sampietro, M., see Gatti, E. ... A273 (1988) 865
Sampietro, M., see Gatti, E. ... A274 (1989) 469
Sampietro, M., see Radeka, V. ... A275 (1989) 536
Sampietro, M., see Gatti, E. ... A276 (1989) 588
San Sebastian, M., see Artusi, G. ... A279 (1989) 523
Sanada, E.K., see Vannucci, A. ... A280 (1989) 593
Sanba, A., see Deutsch, C. ... A278 (1989) 38
Sánchez, A.M., see Tomé, F.V. ... A276 (1989) 289
Sanchez, E., see Allen, P. ... A277 (1989) 347
Sanchez, E.A., Influence of Na deposition on convoy-electron emission ... A280 (1989) 433
Sánchez, J.H., see Fernández, J.E. ... A280 (1989) 546
Sanchis, E., see Allen, P. ... A277 (1989) 347
Sanchis, M.A., see Allen, P. ... A277 (1989) 347
Sandberg, V., see Durkin, L.S. ... A277 (1989) 386
Sanders, D., see Bari, G. ... A277 (1989) 11
Sanders, H., see Abe, F. ... A271 (1988) 387
Sanger, H.M., see Mitchell, D.J. ... A276 (1989) 547
Sannino, M. and E. Durante, Alignment in magnetic field, charge transmission and drift velocity monitoring for the TPC-like electromagnetic calorimeter of the DELPHI experiment at LEP ... A273 (1988) 494
Sano, H., see Ninomiya, M. ... A272 (1988) 727
Sano, T., K. Ashikaga, T. Doke, A. Hitachi, J. Kikuchi, K. Masuda and Y. Okumura, Photon-mediated electron multiplication in liquid xenon doped with trimethylamine ... A275 (1989) 346
Sansen, W., Technology tradeoffs in high-frequency detector integrated circuits ... A275 (1989) 479

Sansoni, A., see Abe, F. ... A271 (1988) 387
Santacesaria, R., see De Winter, K. ... A277 (1989) 83
Santacesaria, R., see De Winter, K. ... A277 (1989) 170
Santacesaria, R., see CHARM II Collaboration ... A278 (1989) 670
Santiard, J.-C., see Solomey, N. ... A271 (1988) 423
Santiard, J.C., see Miné, P. ... A273 (1988) 881
Santiard, J.C., see Charpak, G. ... A274 (1989) 275
Santiard, J.C., see Dominik, W. ... A278 (1989) 779
Santiard, J.C., see Francke, T. ... A279 (1989) 317
Santra, L., D. Bhaumik and S.C. Roy, Measurement of changes in viscosity in polymers with gamma-ray dose using a differential viscometer ... A280 (1989) 402
Sanzani, G., see Artusi, G. ... A279 (1989) 523
Sapp, W., see Beck, D. ... A277 (1989) 323
Sard, R., see Abe, F. ... A271 (1988) 387
Sargent, C.P., see Beck, D. ... A277 (1989) 323
Saris, F.W., see Urbanus, W.H. ... A278 (1989) 339
Sarkissian, B.V.B., The multidetector neutron spin echo spectrometer IN11B ... A273 (1988) 185
Sarma, P.R., V.S. Pandit and R.K. Bhandari, Optimization of collimating slit sizes to maximize beam transmission ... A274 (1989) 431
Sarma, P.R., see Pandit, V.S. ... A276 (1989) 21
Sartorelli, G., see Bari, G. ... A277 (1989) 11
Sartori, G., see Bacchetta, N. ... A273 (1988) 172
Sasaki, A., see Harada, M. ... A276 (1989) 451
Sasaki, H., see Aoki, S. ... A274 (1989) 64
Sasaki, S., see Ninomiya, M. ... A272 (1988) 727
Sato, H., D. Arakawa, S. Hiramatsu, Y. Mori, K. Ikegami, A. Takagi, T. Toyama, A. Ueno and K. Imai, Acceleration of the polarized proton beam at the KEK 12 GeV PS ... A272 (1988) 617
Sato, H., see Ohmori, C. ... A278 (1989) 705
Sato, Y., see Aoki, S. ... A274 (1989) 64
Satoh, S., see Motobayashi, T. ... A271 (1988) 491
Sauli, F., see Jibaly, M. ... A273 (1988) 161
Sauli, F., see Breskin, A. ... A273 (1988) 798
Sauli, F., Three-dimensional gaseous detectors ... A273 (1988) 805
Sauli, F., see Charpak, G. ... A274 (1989) 275
Sauli, F., see Charpak, G. ... A277 (1989) 537
Sauli, F., see Peskov, V. ... A277 (1989) 547
Sauli, F., see Dominik, W. ... A278 (1989) 779
Sauli, F., see Giomataris, Y. ... A279 (1989) 322
Sauvage, D., see Breskin, A. ... A273 (1988) 798
Sauvage, D., A. Breskin and R. Chechik, A systematic study of the emission of light from electron avalanches in low-pressure TEA and TMAE gas mixtures ... A275 (1989) 351
Sauvage, G., see Bakken, J.A. ... A275 (1989) 81
Sauvage, G., see Bakken, J.A. ... A280 (1989) 25
Sauvage, J., see ISOCELE Collaboration ... A274 (1989) 485
Savin, A., see L3 Collaboration ... A275 (1989) 71
Savitsky, A.B., see Alimov, A.S. ... A278 (1989) 379
Savrié, M., see Calabrese, R. ... A277 (1989) 116
Sawatzky, G.A., see Goedkoop, J.B. ... A273 (1988) 429
Sayasov, Yu.S., Some unconventional ICF approaches with heavy-ion beams ... A278 (1989) 132
Scampoli, P., see Ansari, R. ... A279 (1989) 388
Scapellato, S., see Albrizio, R. ... A271 (1988) 449
Scarlatella, M., see Benvenuti, A.C. ... A276 (1989) 94
Scarlini, E., see Batignani, G. ... A277 (1989) 147
Scarpine, V., see Abe, F. ... A271 (1988) 387
Ščavničar, S., see Balić Žunić, T. ... A271 (1988) 304
Schaad, T.P., see Bakken, J.A. ... A275 (1989) 81
Schaad, T.P., see Bakken, J.A. ... A280 (1989) 25
Schacht, P., see Braunschweig, W. ... A275 (1989) 246
Schäcke, D., see Bamberger, A. ... A277 (1989) 46
Schaefer, H.R., see Cates, G.D. ... A278 (1989) 293
Schaeffer, M., see Bloch, D. ... A273 (1988) 847

Schäfer, C., see Adlassnig, W. ... A277 (1989) 485
Schäfer, U., see Baumgart, R. ... A272 (1988) 722
Schäfer, W., see Kurz, R. ... A273 (1988) 273
Schafheitle, B., see Fabbretti, R. ... A280 (1989) 13
Schall, P., see Heeg, P. ... A278 (1989) 452
Schamberger, R.D., see D0 Calorimeter Group ... A280 (1989) 36
Schapira, J.P., Long-term nuclear waste management:present status and alternatives ... A280 (1989) 568
Schär, P., see L3 Collaboration ... A275 (1989) 71
Scharer, J., O. Eldridge, S.-F. Chang and N. Lam, Nonlinear analysis and simulation of a millimeter range free electron laser with a helical quadrupole wiggler ... A272 (1988) 289
Scharlemann, E.T., see Throop, A.L. ... A272 (1988) 15
Scharlemann, E.T., see Jong, R.A. ... A272 (1988) 99
Scharlemann, E.T., see Barnard, J.J. ... A272 (1988) 467
Scharlemann, E.T., see Chen, Y.-J. ... A272 (1988) 485
Scharlemann, E.T., see Boyd, J.K. ... A272 (1988) 590
Scharlemann, E.T., see Shay, H.D. ... A272 (1988) 601
Scheck, H., see ARGUS Collaboration ... A275 (1989) 1
Scheel, C., see Desalvo, R. ... A279 (1989) 467
Scheele, K., see Heeg, P. ... A278 (1989) 452
Scheid, W., see Christopoulos, A.S. ... A271 (1988) 178
Schelten, J., see Kurz, R. ... A273 (1988) 273
Schempp, A., see Wojke, R.G.C. ... A273 (1988) 21
Schempp, A., see Urbanus, W.H. ... A276 (1989) 433
Schempp, A., H. Deitinghoff and A. Kipper, Development of a 27 MHz heavy-ion spiral RFQ ... A278 (1989) 169
Schempp, A., see Leipe, P. ... A278 (1989) 213
Schempp, A., see Gerhard, A. ... A278 (1989) 220
Schempp, A., see Wojke, R.G.C. ... A278 (1989) 318
Schenuit, E., see Bürger, J. ... A279 (1989) 217
Schetkowski, A., see Adeva, B. ... A277 (1989) 187
Schiffmann, K., see Duhm, H.H. ... A277 (1989) 565
Schildkamp, W., see LeGrand, A.D. ... A275 (1989) 442
Schinzel, D., see Ochsenbein, S. ... A273 (1988) 654
Schinzel, D., see Buckley, E. ... A275 (1989) 364
Schinzel, D., see UA1 Collaboration ... A279 (1989) 83
Schlabach, P., see Abe, F. ... A271 (1988) 387
Schlesinger, S.P., see Yee, F.G. ... A272 (1988) 162
Schlicher, R.R., see Gea-Banacloche, J. ... A272 (1988) 199
Schlösser, H., see Gils, H.J. ... A276 (1989) 169
Schmeing, H., see Sharma, K.S. ... A275 (1989) 123
Schmelzbach, P.A., see Friedrich, L. ... A272 (1988) 906
Schmelzbach, P.A., see Singy, D. ... A278 (1989) 349
Schmid, B.A., see Robmann, P. ... A277 (1989) 368
Schmidt, B. and S. Polenz, Electron motion in counting gases – New answers and new questions ... A273 (1988) 488
Schmidt, B., see Heintze, J. ... A277 (1989) 29
Schmidt, E.E., see Abe, F. ... A271 (1988) 387
Schmidt, E.E., see Newman-Holmes, C. ... A274 (1989) 443
Schmidt, G., see Michel, P. ... A273 (1988) 299
Schmidt, H.R., see Awes, T.C. ... A279 (1989) 479
Schmidt, K.-H., see Hessberger, F.P. ... A274 (1989) 522
Schmidt, P., J. Fellinger, J. Henniger and K. Hübner, Experimental determination of relative light conversion factors of TLD-100 for protons with energies from 2.0 to 9.0 MeV ... A272 (1988) 875
Schmidt, S., see Seuthe, S. ... A272 (1988) 814
Schmidt, W.F., see Ochsenbein, S. ... A273 (1988) 654
Schmidt, W.F., see Buckley, E. ... A275 (1989) 364
Schmidt-Parzefall, W., see Buchner, U. ... A272 (1988) 695
Schmidt-Parzefall, W., see Danilov, M. ... A274 (1989) 189
Schmidt-Parzefall, W., see ARGUS Collaboration ... A275 (1989) 1
Schmiedmayer, J., M. Pernicka and M.C. Moxon, An analog and time digitizer for two-dimensional data acquisition for time-of-flight measurements ... A276 (1989) 250
Schmitt, Ch., see Richter, A.W. ... A274 (1989) 249
Schmitt, M.J., C.J. Elliott and B.E. Newnam, Harmonic power implications on free electron laser mirror design ... A272 (1988) 586

Schmitt, P., see Adeva, B. ... A277 (1989) 187
Schmitt, R.P., see Utsunomiya, H. ... A278 (1989) 744
Schmitz, D., see Bakken, J.A. ... A275 (1989) 81
Schmitz, D., see Bakken, J.A. ... A280 (1989) 25
Schmitz, P., see Böhm, A. ... A273 (1988) 471
Schmoetten, E., see Drees, A. ... A273 (1988) 793
Schneck, B., see Paul, M. ... A277 (1989) 418
Schneegans, M., see Bakken, J.A. ... A275 (1989) 81
Schneegans, M., see Bakken, J.A. ... A280 (1989) 25
Schneekloth, U., see Benvenuti, A.C. ... A276 (1989) 94
Schneekloth, U., see Cartwright, S. ... A277 (1989) 269
Schneider, H., see Ebel, F. ... A272 (1988) 626
Schneider, H., see Ebel, F. ... A274 (1989) 1
Schneider, J.R., H. Nagasawa, L.E. Berman, J.B. Hastings, D.P. Siddons and W. Zulehner, Test of annealed Czochralski grown silicon crystals as X-ray diffraction elements with 145 keV synchrotron radiation ... A276 (1989) 636
Schneider, M., see Coyle, P. ... A273 (1988) 858
Schneider, V. and J.A. Maruhn, Two-dimensional hydrodynamic simulations of beam–target experiments ... A278 (1989) 123
Schneider, Z., see Anisimov, Yu.S. ... A273 (1988) 731
Schneps, J., see Oliver, W.P. ... A276 (1989) 371
Schoch, B., see Gothe, R.W. ... A276 (1989) 233
Schoessow, P., see Abe, F. ... A271 (1988) 387
Scholz, A., see Kurz, R. ... A273 (1988) 273
Schön, A., see Breskin, A. ... A273 (1988) 798
Schöneberg, U., see Buttler, W. ... A277 (1989) 217
Schooneveld, E.M., see Audet, S.A. ... A275 (1989) 517
Schooneveld, E.M., C.W.E. Van Eijk, R.W. Hollander and S.A. Audet, A silicon strip detector for β-radiochromatography ... A275 (1989) 597
Schoop, K., see Streubel, G. ... A274 (1989) 194
Schöri, O., see Bay, A. ... A271 (1988) 497
Schotanus, P., C.W.E. Van Eijk and R.W. Hollander, Detection of $LaF_3:Nd^{3+}$ scintillation light in a photosensitive multiwire chamber (*Letter to the Editor*) ... A272 (1988) 913
Schotanus, P., C.W.E. Van Eijk and R.W. Hollander, The effect of Pb^{2+} contamination on BaF_2 scintillation characteristics (*Letter to the Editor*) ... A272 (1988) 917
Schotanus, P., C.W.E. Van Eijk and R.W. Hollander, A gamma camera for PET using a barium fluoride scintillator and a TMAE filled wire chamber ... A273 (1988) 886
Schreiner, W.H., see Stedile, F.C. ... A280 (1989) 552
Schreiner, W.H., see Vasconcellos, M.A.Z. ... A280 (1989) 557
Schrewe, U.J., see Brede, H.J. ... A274 (1989) 332
Schröder, H., see ARGUS Collaboration ... A275 (1989) 1
Schröder, U., see Neldner, K. ... A274 (1989) 419
Schub, M.H., see Abe, F. ... A271 (1988) 387
Schubank, R., see Abegg, R. ... A273 (1988) 43
Schubert, K.R., see ARGUS Collaboration ... A275 (1989) 1
Schuch, R., H. Poth and A. Wolf, X-ray measurements at the stand-alone electron cooler for LEAR ... A276 (1989) 445
Schug, J., see Bürger, J. ... A279 (1989) 217
Schülke, W., Inelastic X-ray scattering ... A280 (1989) 338
Schüll, D., see Henning, W. ... A271 (1988) 324
Schult, O.W.B., see Koch, H.R. ... A271 (1988) 375
Schult, O.W.B., see Borchert, G.L. ... A274 (1989) 507
Schulte, R., see Böhm, A. ... A273 (1988) 471
Schulte, W.H., see Neldner, K. ... A274 (1989) 419
Schulte, W.H., see Wüstenbecker, S. ... A279 (1989) 448
Schultz, D., see Coyle, P. ... A273 (1988) 858
Schultz, J., see Benson, S.V. ... A272 (1988) 22
Schultz, J., see Artusi, G. ... A279 (1989) 523
Schultz, J.F., see Benson, S.V. ... A272 (1988) 499
Schulz, H.D., see ARGUS Collaboration ... A275 (1989) 1
Schulz, M., see Klär, H. ... A275 (1989) 197
Schulz, M., see Bürger, J. ... A279 (1989) 217
Schulze, M.E., see Cates, G.D. ... A278 (1989) 293
Schulze, R., see Albrecht, R. ... A276 (1989) 131

Schütt, J., see CHARM II Collaboration ... A278 (1989) 670
Schwahn, D., see Alefeld, B. ... A274 (1989) 210
Schwanke, H.G., see Brinkmann, K.-Th. ... A276 (1989) 557
Schwarz, E., see Merchez, F. ... A275 (1989) 133
Schwarz, H.E., see Lapington, J.S. ... A273 (1988) 506
Schweda, G., see Buchner, U. ... A272 (1988) 695
Schweikert, E.A., see Davis, K.V. ... A273 (1988) 203
Schweitzer, J.S., see Wüstenbecker, S. ... A279 (1989) 448
Schwettman, H.A., see Rohatgi, R. ... A272 (1988) 32
Schwind, A.-E., see Bähr, J. ... A274 (1989) 145
Schwitters, R., see Abe, F. ... A271 (1988) 387
Sciacca, C., see Adeva, B. ... A277 (1989) 187
Sciani, V. and G. Lucki, Diffusion enhancement in Fe–Ni alloys during fast-neutron irradiation ... A280 (1989) 564
Scigocki, D., see Miné, P. ... A273 (1988) 881
Scigocki, D., see Charpak, G. ... A277 (1989) 537
Sciubba, A., see Aoki, S. ... A274 (1989) 64
Sciubba, A., see Angelini, C. ... A277 (1989) 132
Scott, M.C., see Crout, N.M.J. ... A277 (1989) 664
Scribano, A., see Abe, F. ... A271 (1988) 387
Scrimaglio, R., see Bari, G. ... A277 (1989) 11
Sculli, J., see D0 Calorimeter Group ... A280 (1989) 36
Scully, M.O., see Gea-Banacloche, J. ... A272 (1988) 199
Scuri, F., see Checchia, P. ... A275 (1989) 49
Scuri, F., see DELPHI Forward ElectroMagnetic Group ... A279 (1989) 473
Sears, J., see Shu, Q.S. ... A278 (1989) 329
Sebastia, A., see Checchia, P. ... A275 (1989) 49
Sebastia, A., see DELPHI Forward ElectroMagnetic Group ... A279 (1989) 473
Sechi, G., see Annunziata, M. ... A271 (1988) 597
Sedgbeer, J.K., see Barber, G.J. ... A279 (1989) 212
Seez, C., see UA1 Collaboration ... A279 (1989) 83
Segalov, Z., see Granatstein, V.L. ... A272 (1988) 110
Segler, S., see Abe, F. ... A271 (1988) 387
Séguinot, J., see Arnold, R. ... A273 (1988) 466
Sehgal, V.K., see Durkin, L.S. ... A277 (1989) 386
Seidel, W., see Von Feilitzsch, F. ... A271 (1988) 332
Seidel, W., H.-G. Ortlepp, F. Stary and H. Sodan, Double-grid avalanche counter with large dynamic range ... A273 (1988) 536
Seiden, A., see Sadrozinski, H.F.-W. ... A277 (1989) 92
Seiden, A., see CHARM II Collaboration ... A278 (1989) 670
Seiden, A., see Sadrozinski, H.F.-W. ... A279 (1989) 223
Seidl, W., see Buckley, E. ... A275 (1989) 364
Seidl, W., see UA1 Collaboration ... A279 (1989) 83
Seidman, A., see Ferri, G. ... A273 (1988) 123
Seidman, A., see SICAPO Collaboration ... A279 (1989) 57
Seidman, A., see SICAPO Collaboration ... A279 (1989) 66
Seifert, H., J. Henniger and B. Dörschel, Comparison of calculated and measured neutron sensitivities of a polyethylene-covered ionisation chamber ... A275 (1989) 411
Seiler, P., see Adeva, B. ... A277 (1989) 187
Seiler, P.G., see Prokoviev, O. ... A278 (1989) 608
Seiler, P.G., see Fabbretti, R. ... A280 (1989) 13
Sekiguchi, M., see Abe, F. ... A271 (1988) 387
Sekimoto, H., see Onoda, T. ... A272 (1988) 844
Sekimoto, H., see Liem, P.H. ... A274 (1989) 579
Sekimoto, M., see Ninomiya, M. ... A272 (1988) 727
Sekine, T., see Ichikawa, S. ... A274 (1989) 259
Sellem, R., see ISOCELE Collaboration ... A274 (1989) 485
Seller, P., see Allport, P.P. ... A273 (1988) 630
Seller, P., see Thomas, S.L. ... A275 (1989) 564
Seller, P., see Burns, M. ... A277 (1989) 154
Seller, P., see Joyce, D. ... A279 (1989) 189
Sellmair, J., see Korschinek, G. ... A271 (1988) 328
Sellmair, J. and G. Korschinek, Operation of the Munich laser ion source in a Van de Graaff ... A278 (1989) 651

Sellmann, D., see Ben-Zvi, I. ... A276 (1989) 53
Sellschop, J.P.F., see Von Wimmersperg, U. ... A271 (1988) 383
Selonke, F., see ZEUS Calorimeter Group ... A274 (1989) 134
Selonke, F., see ARGUS Collaboration ... A275 (1989) 1
Selove, W., see D0 Calorimeter Group ... A280 (1989) 36
Seltzer, S.M., see Duvall, K.C. ... A272 (1988) 866
Seltzer, S.M., see Yin, L.I ... A277 (1989) 619
Selvaggi, G., see Albrizio, R. ... A271 (1988) 449
Selvankumaran, T., see Apte, A.R. ... A273 (1988) 403
Semenov, A., see ARGUS Collaboration ... A275 (1989) 1
Semenov, Yu., see ARGUS Collaboration ... A275 (1989) 1
Sen Gupta, S.K., see Roy, S.C. ... A280 (1989) 198
Sené, M., see WA76 Collaboration ... A274 (1989) 165
Sené, M.R., A simple gating system for the Hamamatsu R1250 photomultiplier ... A278 (1989) 503
Sené, R., see WA76 Collaboration ... A274 (1989) 165
Serbeto, A., see Granatstein, V.L. ... A272 (1988) 110
Seretlo, J.R., see Mdebuka, A.M. ... A280 (1989) 415
Serio, M., see Cavallo, N. ... A272 (1988) 64
Servajean, A., see Deutsch, C. ... A278 (1989) 38
Servoli, L., see Benvenuti, A.C. ... A276 (1989) 94
Servoli, L., see Alpat, B. ... A277 (1989) 260
Servoli, L., see Cartwright, S. ... A277 (1989) 269
Sessa, M., see Checchia, P. ... A275 (1989) 49
Sessa, M., see DELPHI Forward ElectroMagnetic Group ... A279 (1989) 473
Sessler, A.M., see Throop, A.L. ... A272 (1988) 15
Sessler, A.M., see Chen, Y.-J. ... A272 (1988) 485
Sestini, P., see Abe, F. ... A271 (1988) 387
Setoguchi, K., see Mitarai, S. ... A277 (1989) 491
Seufert, R., see Camporesi, T. ... A277 (1989) 77
Seuthe, S., H.W. Becker, C. Rolfs, S. Schmidt, H.P. Trautvetter, R.W. Kavanagh and F.B. Waanders, Construction and properties of a gamma-ray detector based on D(γ, n)H neutron counting ... A272 (1988) 814
Seymour, C.J., see Owens, A. ... A275 (1989) 416
Seywerd, H.C.J., see ARGUS Collaboration ... A275 (1989) 1
Sgarbi, C., see Aoki, S. ... A274 (1989) 64
Shafranov, M.D., see Filatova, N.A. ... A272 (1988) 707
Shagin, P.M., see IHEP–IISN–LANL–LAPP Collaboration ... A276 (1989) 652
Shah, T.P., see Bains, N. ... A279 (1989) 297
Shambroom, D., see Bari, G. ... A277 (1989) 11
Shamov, A.G., see Blinov, A.E. ... A273 (1988) 31
Shang, R.-C., see He, H.-J. ... A272 (1988) 847
Shani, G., see Ofek, R. ... A278 (1989) 513
Shapiro, A.M., see Bari, G. ... A277 (1989) 11
Shapiro, M., see Abe, F. ... A271 (1988) 387
Shapiro, S., see Coyle, P. ... A273 (1988) 858
Shapiro, S.L., W.M. Dunwoodie, J.F. Arens, J.G. Jernigan and S. Gaalema, Silicon pin diode array hybrids for charged particle detection ... A275 (1989) 580
Sharma, K.S., H. Schmeing, H.C. Evans, E. Hagberg, J.C. Hardy and V.T. Koslowsky, The direct determination of the masses of unstable atoms with the Chalk River on-line isotope seperator ... A275 (1989) 123
Sharma, R.C., see Sunta, C.M. ... A280 (1989) 449
Sharp, W.M. and S.S. Yu, Validity of 1D free electron laser sideband models ... A272 (1988) 397
Shaughnessy, C., see Walsh, J. ... A272 (1988) 132
Shaw, R., see Coyle, P. ... A273 (1988) 858
Shay, H., see Kulke, B. ... A272 (1988) 241
Shay, H.D. and E.T. Scharlemann, Reducing sensitivity to errors in free electron laser amplifiers ... A272 (1988) 601
Shaylor, H.R., see WA76 Collaboration ... A274 (1989) 165
Shea, M.F., see Droege, T.F. ... A279 (1989) 359
Shea, T., see Kehne, D. ... A278 (1989) 194
Shea, T., see Rudd, H. ... A278 (1989) 198
Sheaff, M., see Abe, F. ... A271 (1988) 387
Sheerman, C.J., see Bakich, A.M. ... A273 (1988) 853
Shefer, R.E., see Oettinger, P.E. ... A272 (1988) 264

Sheffield, R.L., E.R. Gray and J.S. Fraser, The Los Alamos photoinjector program ... A272 (1988) 222
Sheldon, W.R., see Bari, G. ... A277 (1989) 11
Shen, D.Z., see Yin, Z.W. ... A275 (1989) 273
Shen, P., see Bari, G. ... A277 (1989) 11
Shen Yuanfa, see Su Yi ... A272 (1988) 147
Shepard, P.F., see Engels Jr, E. ... A279 (1989) 272
Shephard, W.D., see Toothacker, W.S. ... A273 (1988) 97
Shevchenko, S., see L3 Collaboration ... A275 (1989) 71
Shevchenko, V., see ARGUS Collaboration ... A275 (1989) 1
Shevchenko, V., see L3 Collaboration ... A275 (1989) 71
Shevelko, V.P., see Melchert, F. ... A278 (1989) 65
Shi, Z., see Bari, G. ... A277 (1989) 11
Shibaev, V., see Danilov, M. ... A274 (1989) 189
Shibamura, E., see Masuda, K. ... A279 (1989) 560
Shibata, E.I., see Rangan, L.K. ... A276 (1989) 496
Shibata, M., see Abe, F. ... A271 (1988) 387
Shibata, T., see Fujinaga, T. ... A276 (1989) 317
Shibuya, H., see Aoki, S. ... A274 (1989) 64
Shibuya, S., see Shirato, S. ... A278 (1989) 477
Shidara, T., S. Anami, S. Fukuda, Y. Saito, H. Honma, J. Tanaka, G. Horikoshi and A. Abchiche, Klystron modulator for the KEK 2.5 GeV linac ... A279 (1989) 423
Shield, P.D., see Harnew, N. ... A279 (1989) 290
Shihomatsu, H.M. and S.S. Iyer, Trace uranium analysis by isotope dilution alpha and mass spectrometry and comparison with other techniques ... A280 (1989) 488
Shikazono, N., see Kawarasaki, Y. ... A272 (1988) 206
Shimizu, S., see Saigusa, T. ... A280 (1989) 195
Shimojo, T., see Okada, T. ... A278 (1989) 97
Shin, Y.M., N.R. Stevenson, L.O. Dallin, K. Itoh, G. Retzlaff, G.D. Wait, D.R. Gill and D.F. Ottewell, A t_{20} tensor polarimeter ... A274 (1989) 227
Shino, K., see Sumiyoshi, T. ... A271 (1988) 432
Shiotani, N., N. Sakai, F. Itoh, M. Sakurai, H. Kawata, Y. Amemiya and M. Ando, An X-ray spectrometer for Compton scattering experiments with synchrotron radiation ... A275 (1989) 447
Shirato, S., S. Shibuya, Y. Ando, T. Kokubu and K. Hata, Absolute determination of T–d neutron yields by the associated particle method ... A278 (1989) 477
Shirato, S., see Koori, N. ... A278 (1989) 737
Shivpuri, R., see Engels Jr, E. ... A279 (1989) 272
Shmakov, K., see L3 Collaboration ... A275 (1989) 71
Shochet, M., see Abe, F. ... A271 (1988) 387
Short, S.A., see Wilson, O.J. ... A271 (1988) 644
Shoutko, V., see L3 Collaboration ... A275 (1989) 71
Shtannikov, A.V., see IHEP–IISN–LANL–LAPP Collaboration ... A276 (1989) 652
Shu, Q.S., W. Hartung, J. Kirchgessner, D. Moffat, H. Padamsee, D.L. Rubin and J. Sears, A study of the influence of heat treatment on field emission in superconducting rf cavities ... A278 (1989) 329
Shukri, A., see Bradley, D.A. ... A280 (1989) 207
Shukri, A., see Bradley, D.A. ... A280 (1989) 392
Shumakov, A.V., see Alimov, A.S. ... A278 (1989) 379
Shumilov, E., see Chen, C. ... A272 (1988) 713
Shumilov, E., see L3 Collaboration ... A275 (1989) 71
Shvedunov, V.I., see Alimov, A.S. ... A278 (1989) 379
Sibikin, V.V., see Bui Van, N.A. ... A280 (1989) 419
SICAPO Collaboration, E. Borchi, R. Macii, S. Mazzoni, I. Fedder, G. Lindstroem, C. Bertrand, F. Lamarche, C. Leroy, A. Villari, M. Bruzzi, C. Furetta, R. Paludetto, S. Pensotti, P.G. Rancoita, C. Simeone, L. Venturelli, L. Vismara, J.E. Brau, N. Croituro, A. Seidman, S.C. Berridge, W.M. Bugg, R. Giacomich, A. Penzo, E. Toppano, P. Giubellino, L. Ramello, L. Riccati, M. Pisani and R. Steni, Silicon sampling hadronic calorimetry: a tool for experiments at the next generation of colliders ... A279 (1989) 57
SICAPO Collaboration, F. Lemeilleur, F. Lamarche, C. Leroy, R.Paludetto, S. Pensotti, P.G. Rancoita, L. Vismara and A. Seidman, Longitudinal and transverse development of electromagnetic showers using silicon detectors ... A279 (1989) 66
Sick, I., see Jaskóła, M. ... A273 (1988) 441
Šidák, Z., see Anisimov, Yu.S. ... A273 (1988) 731
Siddons, D.P., see Schneider, J.R. ... A276 (1989) 636

Sideras-Haddad, E., see Von Wimmersperg, U. ... A271 (1988) 383
Sidi, M., see Lidén, F. ... A273 (1988) 240
Siebenlist, F., see Wojke, R.G.C. ... A273 (1988) 21
Siegrist, J., see Abe, F. ... A271 (1988) 387
Siemiarczuk, T., see Albrecht, R. ... A276 (1989) 131
Siemssen, R.H., see Paul, M. ... A277 (1989) 418
Sillou, S., see Kuroda, K. ... A274 (1989) 409
Silver, E.H., S.E. Labov, F. Goulding, N. Madden, D. Landis and J. Beeman, A new microcalorimeter concept for photon counting X-ray spectroscopy ... A277 (1989) 657
Silvestris, L., see Albrizio, R. ... A271 (1988) 449
Simaitis, V., see Abe, F. ... A271 (1988) 387
Simak, V., see Ansari, R. ... A279 (1989) 388
Simeone, C., see SICAPO Collaboration ... A279 (1989) 57
Simmons, J.K., see Abe, F. ... A271 (1988) 387
Simon, M., see Hof, M. ... A276 (1989) 628
Simone, S., see Aoki, S. ... A274 (1989) 64
Simone, S., see Giubellino, P. ... A275 (1989) 89
Simonetto, F., see Cuevas, J. ... A274 (1989) 459
Simonetto, F., see Checchia, P. ... A275 (1989) 49
Simonetto, F., see Burns, M. ... A277 (1989) 154
Simonetto, F., see Dijkstra, H. ... A277 (1989) 160
Simonetto, F., see DELPHI Forward ElectroMagnetic Group ... A279 (1989) 473
Simons, D.G., P.A.J. De Korte and M. Heppener, An X-ray imaging gas scintillation spectrometer ... A273 (1988) 512
Simons, D.G. and P.A.J. De Korte, Soft X-ray energy resolution and background rejection in a driftless gas scintillation proportional counter ... A277 (1989) 642
Simons, L.M., see Eades, J. ... A278 (1989) 368
Simpson, J., see Woods, P.J. ... A276 (1989) 195
Simpson, J.A., D. Rabinowitz and A.J. Tuzzolino, Cosmic dust investigations. I. PVDF detector signal dependence on mass and velocity for penetrating particles ... A279 (1989) 611
Simpson, J.A. and A.J. Tuzzolino, Cosmic dust investigations. II. Instruments for measurement of particle trajectory, velocity and mass ... A279 (1989) 625
Sinanidis, A., see Engels Jr, E. ... A279 (1989) 272
Sinclair, D., A muon detector for a large air shower array ... A278 (1989) 583
Sinclair, F., see Lund, J.C. ... A272 (1988) 885
Sinervo, P., see Abe, F. ... A271 (1988) 387
Singe, A., see Ebel, F. ... A272 (1988) 626
Singh, B.P., see Kumar, B. ... A274 (1989) 406
Singh, N., see Chand, B. ... A273 (1988) 310
Singh, S., see Chand, B. ... A273 (1988) 310
Singh, S.L., see Ansari, R. ... A279 (1989) 388
Singovsky, A.V., see IHEP–IISN–LANL–LAPP Collaboration ... A276 (1989) 652
Singy, D., P.A. Schmelzbach, W. Grüebler and W.Z. Zhang, Production of intense polarized hydrogen atomic beams by cooling the atoms to low temperature ... A278 (1989) 349
Sinha, A., Investigation of helium and hydrogen deposition in an accelerator based neutron source ... A274 (1989) 563
Sinha, B.K. and R. Bhattacharya, Reflectors for canning a BaF_2 crystal ... A276 (1989) 237
Siotis, I., see Joyce, D. ... A279 (1989) 189
Sippach, F.W., see Atiya, M. ... A279 (1989) 180
Sippach, W., see Buttler, W. ... A277 (1989) 217
Siroli, G.P., see Artusi, G. ... A279 (1989) 523
Sivertz, M., see Abe, F. ... A271 (1988) 387
Skaali, B., see Olsen, A. ... A273 (1988) 565
Skarha, J., see Abe, F. ... A271 (1988) 387
Skensved, P., see Heaton, R. ... A276 (1989) 529
Skinner, G.K., P.K.S. Harper, J.R.H. Herring and B.D. Ramsey, The spacelab 2 XRT xenon-filled position-sensitive proportional counters ... A273 (1988) 682
Skow, D., see Engels Jr, E. ... A279 (1989) 272
Skuja, A., see Artusi, G. ... A279 (1989) 523
Slater, J.M., see Quimby, D.C. ... A272 (1988) 192
Slattery, P., see Engels Jr, E. ... A279 (1989) 272
Sletten, G., see Moszyński, M. ... A280 (1989) 73
Sletten, H.I., see Aoki, S. ... A274 (1989) 64

Sloof, G.W., see Duijn, J.H. A273 (1988) 541
Smirnov, A.Yu., see Mikheyev, S.P. A271 (1988) 249
Smirnova, E.M., see Yeremin, A.V. A274 (1989) 528
Smith, A., see Kowalski, T.Z. A279 (1989) 567
Smith, A.R., see Alston-Garnjost, M. A271 (1988) 475
Smith, C., see Leske, R.A. A277 (1989) 627
Smith, D., see Joyce, D. A279 (1989) 189
Smith, D.A., see Abe, F. A271 (1988) 387
Smith, E.S., see Durkin, L.S. A277 (1989) 386
Smith, G.C., see Mathieson, E. A273 (1988) 518
Smith, L. and K. Hahn, Transverse misalignments in a driver A278 (1989) 191
Smith, N.A., see Morrison, T.P. A274 (1989) 533
Smith, N.J.T., J.C. Perrett, M.A. Pomerantz, A.M. Hillas, P.A. Ogden, M. Patel, R.J.O. Reid and A.A. Watson, An experiment to search for ultra high energy γ-ray sources from the South Pole A276 (1989) 622
Smith, R.P., see D0 Calorimeter Group A280 (1989) 36
Smith, T.I., see Rohatgi, R. A272 (1988) 32
Smykov, L.P., see Anisimov, Yu.S. A273 (1988) 731
Smythe, W.R., see McClelland, J.B. A276 (1989) 35
Snider, R., see Abe, F. A271 (1988) 387
Snigirev, A.A., see Aristov, V.V. A274 (1989) 390
So, K., see Gothe, R.W. A276 (1989) 233
Soares, C.G., see Duvall, K.C. A272 (1988) 866
Sober, D.I., see Feldl, E.J. A274 (1989) 439
Sodan, H., see Seidel, W. A273 (1988) 536
Sohlbach, H., see Brinkmann, K.-Th. A276 (1989) 557
Sokolov, A.S., see Aristov, V.V. A274 (1989) 390
Sokolowski, J.S., see Ben-Zvi, I. A276 (1989) 53
Sola, G., see Antipov, Yu.M. A274 (1989) 452
Soler, P., see Bakich, A.M. A273 (1988) 853
Soliani, G., see Leo, M. A278 (1989) 629
Solimeno, S., see Luchini, P. A272 (1988) 311
Solimeno, S., see Cutolo, A. A272 (1988) 348
Solimeno, S., see Chen, Y.-J. A272 (1988) 490
Solimeno, S., see Cutolo, A. A272 (1988) 501
Sollid, J.E., see Carlsten, B.E. A272 (1988) 247
Solomey, N., W. Dominik and J.-C. Santiard, A parallel-plate avalanche chamber with a gated drift-chamber readout A271 (1988) 423
Solomey, N., see Charpak, G. A274 (1989) 275
Solomon, C.J. and R.J. Ott, Gamma ray imaging with silicon detectors – A Compton camera for radionuclide imaging in medicine A273 (1988) 787
Soloshenko, V., see ARGUS Collaboration A275 (1989) 1
Sonderegger, P., see Desalvo, R. A279 (1989) 467
Sorensen, S.P., see Awes, T.C. A279 (1989) 479
Sorensen, S.P., see Young, G.R. A279 (1989) 503
Sorenson, D.S., see Ford, T.D. A274 (1989) 253
Sorokin, G.I., see Filatova, N.A. A272 (1988) 707
Sorvin, V.M., see Alimov, A.S. A278 (1989) 379
Sosin, Z., see Łukasik, J. A274 (1989) 265
Sotiras, D., see De Bellefon, A. A277 (1989) 211
Sotirovski, P., The Sun as a star A271 (1988) 238
Souder, P.A., see Cates, G.D. A278 (1989) 293
Spaan, B., see Buchner, U. A272 (1988) 695
Spaan, B., see ARGUS Collaboration A275 (1989) 1
Spadafora, A.L., see D0 Calorimeter Group A280 (1989) 36
Spädtke, P., H. Emig, J. Klabunde, D.M. Rück, B.H. Wolf and I.G. Brown, High current metal ion beam transport in the UNILAC injector at GSI A278 (1989) 643
Spallone, A., see Bari, G. A277 (1989) 11
Spandževa, Lj., see Stafilov, T. A271 (1988) 321
Spano, F., see Righetti, M.A. A280 (1989) 514
Spassov, Tz., see Filatova, N.A. A272 (1988) 707
Spassov, Tz., see Filatova, N.A. A279 (1989) 518

Spataro, B., see Boni, R. ... A274 (1989) 49
Specht, H.J., see Drees, A. ... A273 (1988) 793
Specht, H.J., see Breskin, A. ... A273 (1988) 798
Speidel, K.-H., see Karle, W. ... A271 (1988) 507
Spencer, E., see Coyle, P. ... A273 (1988) 858
Spencer, L., see Abe, F. ... A271 (1988) 387
Spengler, J., see Buchner, U. ... A272 (1988) 695
Spengler, J., see ARGUS Collaboration ... A275 (1989) 1
Sperisen, F., A. Berdoz, H.-O. Meyer, R.S. Barbieri and R.A. Bonham, Gas jet density profile measured by electron scattering (*Letter to the Editor*) ... A274 (1989) 604
Spettel, B., see Palme, H. ... A271 (1988) 314
Speziali, V., see Manfredi, P.F. ... A274 (1989) 477
Speziali, V., see Lutz, G. ... A277 (1989) 194
Speziali, V., see Manfredi, P.F. ... A279 (1989) 152
Speziali, V., see Buttler, W. ... A279 (1989) 204
Spickermann, T., see Böhm, A. ... A273 (1988) 471
Spiess, B., see Chen, C. ... A272 (1988) 713
Spiess, B., see L3 Collaboration ... A275 (1989) 71
Spillantini, P., see Basini, G. ... A276 (1989) 367
Spineanu, F., see Vlad, M. ... A274 (1989) 613
Spiridonov, A.A., see Zhigunov, V.P. ... A273 (1988) 362
Spiro, M., see Aleksan, R. ... A274 (1989) 203
Spitzer, H., see Bürger, J. ... A279 (1989) 217
Spitzer, J., see Heintze, J. ... A277 (1989) 29
Sprangle, P., see Penner, S. ... A272 (1988) 73
Sprangle, P., see Hafizi, B. ... A272 (1988) 392
Sprangle, P., A. Ting, B. Hafizi and C.M. Tang, Guided radiation beams in free electron lasers ... A272 (1988) 536
Sprangle, P., see Riyopoulos, S. ... A272 (1988) 543
Springer, R.W., see Artusi, G. ... A279 (1989) 523
Springer, T., see Alefeld, B. ... A274 (1989) 210
Spydevold, I., see Olsen, A. ... A273 (1988) 565
Squillante, M.R., see Lund, J.C. ... A272 (1988) 885
Sreekantan, B.V., see Apte, A.R. ... A273 (1988) 403
Sromicki, J., see Holslin, D. ... A274 (1989) 207
Stab, L., see Lavergne-Gosselin, L. ... A276 (1989) 210
Stafilov, T., T. Todorovski, B. Grozdanova and Lj. Spandževa, Determination of thallium in ore samples from Allchar by atomic absorption spectrometry ... A271 (1988) 321
Stagno, V., see Boscolo, I. ... A275 (1989) 184
Stagno, V., see Boscolo, I. ... A279 (1989) 646
Stähelin, P., see De Winter, K. ... A277 (1989) 83
Stähelin, P., see De Winter, K. ... A277 (1989) 170
Stähelin, P., see CHARM II Collaboration ... A278 (1989) 670
Stanco, L., see Gasparini, F. ... A273 (1988) 485
Stanton, J., see Burns, M. ... A277 (1989) 154
Stanton, J., see Joyce, D. ... A279 (1989) 189
Stapor, W.J., see Harihar, P. ... A272 (1988) 763
Stary, F., see Seidel, W. ... A273 (1988) 536
Stassinaki, M., see WA76 Collaboration ... A274 (1989) 165
Staude, A., see De Winter, K. ... A277 (1989) 83
Staude, A., see De Winter, K. ... A277 (1989) 170
Staude, A., see CHARM II Collaboration ... A278 (1989) 670
Stedile, F.C., W.H. Schreiner, P.H. Dionísio and I.J.R. Baumvol, Characterization of semiconductor processing by ^{119}Sn conversion electron Mössbauer spectroscopy ... A280 (1989) 552
Steele, T.R., see Bartha, G.T. ... A275 (1989) 59
Steenvoorden, R.J.J.M., see Urbanus, W.H. ... A276 (1989) 433
Steenvoorden, R.J.J.M., see Wojke, R.G.C. ... A278 (1989) 318
Stefanini, A., see Abe, F. ... A271 (1988) 387
Stefanini, A.A., see Casini, G. ... A277 (1989) 445
Stefanon, M., see Magnani, M. ... A271 (1988) 611
Steffen, P., see Klär, H. ... A275 (1989) 197
Steffen, P., see Bürger, J. ... A279 (1989) 217

Steffens, E., see Völk, H.-G. ... A279 (1989) 443
Stein, P., see Debrunner, H. ... A278 (1989) 573
Stein, W.E., see Carlsten, B.E. ... A272 (1988) 247
Steinacher, M., see Petković, T. ... A273 (1988) 833
Steinbauer, E. and O. Benka, Detection of low energy X-rays in coincidence measurements using the organic scintillator NE102A ... A272 (1988) 834
Steinberg, P.H., see Artusi, G. ... A279 (1989) 523
Steiner, D., see Bay, A. ... A271 (1988) 497
Steiner, M., see Adlassnig, W. ... A277 (1989) 485
Steiner, V., see Breskin, A. ... A273 (1988) 798
Steinmann, E., see ARGUS Collaboration ... A275 (1989) 1
Stella, B., see Braunschweig, W. ... A275 (1989) 246
Steni, R., see SICAPO Collaboration ... A279 (1989) 57
Stening, R.J., see Christopoulos, A.S. ... A271 (1988) 178
Stening, R.J., see Kasotakis, G. ... A278 (1989) 110
Stepantsov, S.V., see Yeremin, A.V. ... A274 (1989) 528
Stephan, K.-H., Measurements of the X-ray transmission topography on radiation entrance windows for the position sensitive proportional counters on board the German astronomy satellite ROSAT ... A273 (1988) 717
Stephen, J.B., see Court, A.J. ... A273 (1988) 706
Stephens, K.G., see Mingxiu, M. ... A277 (1989) 279
Stephens, R., see Bains, N. ... A279 (1989) 297
Stern, R.A., see Benage Jr, J.F. ... A274 (1989) 13
Sternbach, E., Integral formulation for a waveguide FEL ... A272 (1988) 323
Sterzenbach, G., see Anders, B. ... A277 (1989) 56
Sterzenbach, G., see Job, P.K. ... A271 (1988) 442
Stevens Jr, R.R., see Benage Jr, J.F. ... A274 (1989) 13
Stevenson, M.L., see D0 Calorimeter Group ... A280 (1989) 36
Stevenson, N.R., see Shin, Y.M. ... A274 (1989) 227
Stever, R.D., see Throop, A.L. ... A272 (1988) 15
Stewart, A.T., see McKee, B.T.A. ... A273 (1988) 911
Stickland, D.P., see Bakken, J.A. ... A275 (1989) 81
Stickland, D.P., see Bakken, J.A. ... A280 (1989) 25
Stieber, V., see Wick, K. ... A277 (1989) 251
Stiewe, J., see ARGUS Collaboration ... A275 (1989) 1
Stinson, G.M., see Abegg, R. ... A273 (1988) 43
Stirling, A., see Alitti, J. ... A273 (1988) 135
Stirling, A., see Alitti, J. ... A279 (1989) 364
Stirling, A.V., see Blumenfeld, H. ... A279 (1989) 281
Stöhlker, Th., see Mokler, P.H. ... A278 (1989) 93
Stocchi, A., see Burns, M. ... A277 (1989) 154
Stocchi, A., see Dijkstra, H. ... A277 (1989) 160
Stocker, F., see Clark, A.R. ... A279 (1989) 243
Stockhausen, W., see Adler, J. ... A276 (1989) 42
Stockman, H.W., Microprocessor-based reduction of gamma spectra: a fast method for deconvolution of overlapped peaks ... A274 (1989) 314
Stokes, R.H., see Stovall, J.E. ... A278 (1989) 143
Stork, D., see UA1 Collaboration ... A279 (1989) 83
Stovall, J.E., F.W. Guy, R.H. Stokes and T.P. Wangler, Beam funneling studies at Los Alamos ... A278 (1989) 143
Stozhkov, Yu.I., see Bui Van, N.A. ... A280 (1989) 419
Strahl, K., see ARGUS Collaboration ... A275 (1989) 1
Strand, S.-E., see Ljunggren, K. ... A273 (1988) 784
Strate, J., see Cub, J. ... A274 (1989) 217
Strauch, K., see Adeva, B. ... A277 (1989) 187
Straumann, U., see Braunschweig, W. ... A275 (1989) 246
Straumann, U., see Robmann, P. ... A277 (1989) 368
Straver, J., see ZEUS Calorimeter Group ... A274 (1989) 134
Street, R.A., see Perez-Mendez, V. ... A273 (1988) 127
Street, R.A., see Kaplan, S.N. ... A273 (1988) 611
Streubel, G., B. Dörschel, T. Hanisch, J. Reinhard and K. Schoop, Properties of MOS sensors for application in neutron field monitoring ... A274 (1989) 194
Ströher, H., see Wilke, W. ... A272 (1988) 785

Stroili, R., see Gasparini, F. ... A273 (1988) 485
Stroke, H.H., see Bäcklund, Y. ... A279 (1989) 555
Strolin, P., see De Winter, K. ... A277 (1989) 83
Strolin, P., see De Winter, K. ... A277 (1989) 170
Strolin, P., see CHARM II Collaboration ... A278 (1989) 670
Strong, J.A., see Medcalf, T. ... A277 (1989) 358
Strongin, B., see Womersley, W.J. ... A278 (1989) 447
Stroot, J.P., see IHEP–IISN–LANL–LAPP Collaboration ... A276 (1989) 652
Strovink, M., see Clark, A.R. ... A279 (1989) 243
Struder, L., see Gatti, E. ... A273 (1988) 865
Strüder, L., see Radeka, V. ... A275 (1989) 536
Stüber, W., see Klopf, P. ... A276 (1989) 595
Stutte, L., see Womersley, W.J. ... A278 (1989) 447
Stutz, A., see Aleksan, R. ... A273 (1988) 303
Stutz, A., see Ait-Boubker, S. ... A277 (1989) 461
Su, Y., see Du, X.W. ... A272 (1988) 29
Su Yi, Huang Sunren, Chen Yutao, Shen Yuanfa, Fu Shuzhen, Liu Xishan, Li Zhenrong and Hu Kesong, A microwave FEL amplifier experiment ... A272 (1988) 147
Subotić, K.M., see Milinković, Lj.S. ... A273 (1988) 87
Subotic, K.M., see Milinkovic, Lj.S. ... A276 (1989) 418
Suematsu, S., see Mitarai, S. ... A277 (1989) 491
Suetomi, E., see Liem, P.H. ... A274 (1989) 579
Suffert, M., see Miné, P. ... A273 (1988) 881
Suffert, M., see Francke, T. ... A276 (1989) 263
Suffert, M., see Francke, T. ... A279 (1989) 317
Sugimoto, S., see Sumiyoshi, T. ... A271 (1988) 432
Sugimoto, S., see Homma, Y. ... A274 (1989) 183
Sugimoto, S., see Chiba, M. ... A276 (1989) 122
Sugonyaev, V.P., see IHEP–IISN–LANL–LAPP Collaboration ... A276 (1989) 652
Sukenobu, S., see Gomei, Y. ... A278 (1989) 389
Sumi, Y., see Endo, I. ... A280 (1989) 144
Sumini, M., see Fernández, J.E. ... A280 (1989) 212
Sumiyoshi, T., K. Hayashi, K. Ogawa, F. Takasaki, J. Haba, T. Kamitani, N. Kanematsu, H. Osabe, S. Sugimoto, T. Yamashita, M. Sakano, H. Yoshida and K. Shino, Performance of the VENUS lead-glass calorimeter at TRISTAN ... A271 (1988) 432
Sumiyoshi, T., see Homma, Y. ... A274 (1989) 183
Sumner, I., see Lewis, R. ... A273 (1988) 773
Sumner, R.L., see Bakken, J.A. ... A275 (1989) 81
Sumner, R.L., see Bakken, J.A. ... A280 (1989) 25
Sumner, T.J., G.K. Rochester and G. Hall, Silicon drift chambers for X-ray astronomy ... A273 (1988) 701
Sumorok, K., see UA1 Collaboration ... A279 (1989) 83
Sun, Y., see Bari, G. ... A277 (1989) 11
Sun, Z.Y., see Cui, M.Q. ... A277 (1989) 673
Sundaralingam, N., see Oliver, W.P. ... A276 (1989) 371
Sundell, E., see Burns, M. ... A277 (1989) 154
Sundell, E., see Dijkstra, H. ... A277 (1989) 160
Sunta, C.M., H.S. Dang, D.D. Jaiswal, R.C. Sharma, D.J. Mehta and P.P.V.J. Nambiar, External and internal dosimetry of persons exposed to thorium and application of neutron activation analysis to study its biokinetic behaviour ... A280 (1989) 449
Susinno, G., see Bari, G. ... A277 (1989) 11
Sutton, C., see Damerell, C.J.S. ... A275 (1989) 484
Suvorov, V., see Adeva, B. ... A277 (1989) 187
Suzuki, M., see Breskin, A. ... A273 (1988) 798
Suzuki, Y., see Homma, Y. ... A274 (1989) 183
Suzuki, Y., Y. Fukuda, Y. Nagashima and H. Kan, An indium phosphide solid state detector. A possible low energy gamma and neutrino detector ... A275 (1989) 142
Swain, J.D., see ARGUS Collaboration ... A275 (1989) 1
Swartz, K., see Murakami, T. ... A275 (1989) 112
Swent, R.L., see Rohatgi, R. ... A272 (1988) 32
Sykes, C.E., see Watt, D.E. ... A280 (1989) 495
Symons, T.J.M., see Engelage, J. ... A277 (1989) 431

Szeles, Cs., A. Vértes, M.L. White and H. Leidheiser Jr, Positron annihilation in corrosion protective polymeric coatings, II . . . A271 (1988) 688
Sznajderman, D., see ISOCELE Collaboration . . . A274 (1989) 485

Tadsen, A., see De Winter, K. . . . A277 (1989) 83
Tadsen, A., see De Winter, K. . . . A277 (1989) 170
Tadsen, A., see CHARM II Collaboration . . . A278 (1989) 670
Taguchi, T., see Mima, K. . . . A272 (1988) 106
Tahir, N.A. and R.C. Arnold, A survey of radiation transport effects in homogeneous targets heated by heavy-ion beams from the GSI Darmstadt SIS . . . A278 (1989) 76
Tahir, N.A. and K.A. Long, Inertial fusion using heavy-ion beams . . . A278 (1989) 118
Tahir, N.A., see Arnold, R.C. . . . A278 (1989) 129
Taiocchi, G., see Annunziata, M. . . . A271 (1988) 597
Taiocchi, G., see Guazzoni, P. . . . A278 (1989) 507
Tajima, H., see Aoki, S. . . . A274 (1989) 64
Tajima, T., see Momota, H. . . . A271 (1988) 7
Tajuddin, A.A., see Bradley, D.A. . . . A280 (1989) 207
Tajuddin, A.A., see Bradley, D.A. . . . A280 (1989) 392
Takada, Y., K. Kondo, T. Marume, K. Nagayoshi, I. Okada and K. Takikawa, Proton computed tomography with a 250 MeV pulsed beam . . . A273 (1988) 410
Takagi, A., see Sato, H. . . . A272 (1988) 617
Takagi, A., see Mori, Y. . . . A273 (1988) 5
Takagi, A., see Mori, Y. . . . A278 (1989) 605
Takahashi, N., see Ichikawa, S. . . . A274 (1989) 259
Takahashi, N., see Yamashita, Y. . . . A274 (1989) 584
Takahashi, N., see Bari, G. . . . A277 (1989) 11
Takahashi, T., see Masuda, K. . . . A279 (1989) 560
Takaiwa, Y., see Abe, F. . . . A271 (1988) 387
Takanaka, M., see Watanabe, S.-I. . . . A271 (1988) 359
Takasaki, F., see Sumiyoshi, T. . . . A271 (1988) 432
Takasaki, F., see Homma, Y. . . . A274 (1989) 183
Takeda, H., Analysis of sideband spectra from untapered undulator using analytical technique . . . A272 (1988) 404
Takeda, Y., see Ohmori, C. . . . A278 (1989) 705
Takeishi, T., see Nishikawa, M. . . . A278 (1989) 525
Taketani, A., see Hasegawa, M. . . . A277 (1989) 395
Takeutchi, F., see Kuroda, K. . . . A274 (1989) 409
Takikawa, K., see Abe, F. . . . A271 (1988) 387
Takikawa, K., see Takada, Y. . . . A273 (1988) 410
Takiue, M., see Fujii, H. . . . A273 (1988) 377
Takiue, M., T. Nakate and H. Fujii, Nuclide identification of β-emitter by a double ratio technique using a liquid scintillation counter . . . A274 (1989) 345
Tallerico, P.J., The lasertron rf generator for FEL applications . . . A272 (1988) 218
Tallerico, P.J., see Johnson, W.J.D. . . . A272 (1988) 232
Talochkin, V.P., see Bari, G. . . . A277 (1989) 11
Talyzin, A.N., see Balabayev, A.N. . . . A278 (1989) 148
Tamor, S., Synchrotron radiation loss from hot plasma . . . A271 (1988) 37
Tanabe, T. and T. Watanabe, An electron cooling system for the heavy-ion synchrotron storage ring TARN II . . . A278 (1989) 241
Tanaka, J., see Shidara, T. . . . A279 (1989) 423
Tanaka, M., see Ninomiya, M. . . . A272 (1988) 727
Tanaka, R., see Amako, K. . . . A272 (1988) 687
Tancu, F., see Brede, H.J. . . . A274 (1989) 332
Tanczyn, R., see Piqué, A. . . . A279 (1989) 579
Tang, C.M., see Penner, S. . . . A272 (1988) 73
Tang, C.M., see Hafizi, B. . . . A272 (1988) 392
Tang, C.M., see Riyopoulos, S. . . . A272 (1988) 448
Tang, C.M., see Sprangle, P. . . . A272 (1988) 536
Tang, C.M., see Riyopoulos, S. . . . A272 (1988) 543
Tang, E.S., see Cui, M.Q. . . . A277 (1989) 673
Tang, H., see Cai, S.Y. . . . A272 (1988) 136
Tang, J. and J.R. Norris, Deconvolution of kinetic decays and fitting of multiple exponential decay curves by the linear prediction method . . . A273 (1988) 338

Tang, X.W., see Chen, C. ... A272 (1988) 713
Tang, X.W., see L3 Collaboration ... A275 (1989) 71
Tanihata, I., see Engelage, J. ... A277 (1989) 431
Tannenbaum, M.J., see Alburger, D.E. ... A276 (1989) 127
Tanner, N.W., see Okx, W.J.C. ... A273 (1988) 548
Taragin, M.F., see Kessler, R.S. ... A275 (1989) 285
Taras, P., see Gascon, J. ... A278 (1989) 491
Tarem, S., see Abe, F. ... A271 (1988) 387
Tarkovsky, E., see L3 Collaboration ... A275 (1989) 71
Tarrach, G., see CP-LEAR Collaboration ... A279 (1989) 285
Tartaglia, M., see Womersley, W.J. ... A278 (1989) 447
Tasaka, S., see Aoki, S. ... A274 (1989) 64
Tatchyn, R., A universal classification of optimal undulator types and parameters for arbitrary storage ring environments ... A275 (1989) 430
Tatchyn, R., A dynamic method for continuously measuring magnetic field profiles in planar micropole undulators with submillimeter gaps ... A279 (1989) 655
Tatumi, S.H., L.R. Batista, S. Watanabe and M. Matsuoka, Thermoluminescence dating of calcite deposits in a Brazilian cave ... A280 (1989) 510
Taufer, M., see Destruel, P. ... A276 (1989) 69
Tavernier, S., see Miné, P. ... A273 (1988) 881
Taylor, C., see Bakken, J.A. ... A275 (1989) 81
Taylor, C., see Bakken, J.A. ... A280 (1989) 25
Taylor, F.E., see Benvenuti, A.C. ... A276 (1989) 94
Taylor, F.E., see Womersley, W.J. ... A278 (1989) 447
Taylor, L., see Joyce, D. ... A279 (1989) 189
Tazzioli, F., see Boni, R. ... A274 (1989) 49
Tchistilin, V., see ARGUS Collaboration ... A275 (1989) 1
Tchudakov, V., see Chen, C. ... A272 (1988) 713
Tchudakov, V., see L3 Collaboration ... A275 (1989) 71
Tegnér, P.-E., see Bargholtz, Chr. ... A279 (1989) 668
Teiger, J., see Ducros, Y. ... A277 (1989) 401
Teiger, J., see Detœuf, J.F. ... A279 (1989) 310
Teixeira, S.R., see Vasconcellos, M.A.Z. ... A280 (1989) 557
Telnov, V.I., see Blinov, A.E. ... A273 (1988) 31
Tempesta, P., see Batignani, G. ... A277 (1989) 147
Tenchini, R., see Albrizio, R. ... A271 (1988) 449
Tengblad, O. and R. Von Dincklage, Response function of a beta detector telescope consisting of HPGe and scintillator ... A273 (1988) 257
Tengblad, O., see Lavergne-Gosselin, L. ... A276 (1989) 210
Tengeler, J., see Dwurażny, A. ... A277 (1989) 176
Tenreiro, C., see Gomes, P.R.S. ... A280 (1989) 395
Ter-Akopian, G.M., see Yeremin, A.V. ... A274 (1989) 528
Terada, S., see Doi, Y. ... A274 (1989) 95
Teramoto, Y., see Amako, K. ... A272 (1988) 687
Tesch, K., see Dinter, H. ... A276 (1989) 1
Tether, S., see UA1 Collaboration ... A279 (1989) 83
Tezuka, I., see Aoki, S. ... A274 (1989) 64
Thane, J.M., see DiBitonto, D. ... A279 (1989) 100
Theobald, J.P., see Heeg, P. ... A278 (1989) 452
Theriot, D., see Abe, F. ... A271 (1988) 387
Thevenin, J-C., see Alitti, J. ... A273 (1988) 135
Thevenin, J-C., see Ansorge, R.E. ... A273 (1988) 826
Thevenin, J.C., see Blumenfeld, H. ... A278 (1989) 619
Thibault, C., see Coc, A. ... A271 (1988) 512
Thiele, M., see Bähr, J. ... A274 (1989) 145
Thole, B.T., see Goedkoop, J.B. ... A273 (1988) 429
Thomae, R.W., see Wojke, R.G.C. ... A273 (1988) 21
Thomae, R.W., see Urbanus, W.H. ... A276 (1989) 433
Thomae, R.W., see Wojke, R.G.C. ... A278 (1989) 318
Thomas, J., see Imel, D.A. ... A273 (1988) 291
Thomas, J.F., see Aleksan, R. ... A273 (1988) 303

Thomas, J.F., see Aleksan, R. ... A274 (1989) 203
Thomas, S.L. and P. Seller, A silicon pixel detector with routing for external VLSI readout ... A275 (1989) 564
Thompson, A.W., see Brammer, R.C. ... A271 (1988) 678
Throop, A.L., W.M. Fawley, R.A. Jong, T.J. Orzechowski, D. Prosnitz, E.T. Scharlemann, R.D. Stever, G.A. Westenskow, D.B. Hopkins, A.M. Sessler, S.G. Evangelides and K.E. Kreischer, Experimental results of a high gain microwave FEL operating at 140 GHz ... A272 (1988) 15
Thun, R., Tests of small proportional tubes with CF_4–HRS gas mixtures ... A273 (1988) 157
Tichomirov, I., see Danilov, M. ... A274 (1989) 189
Tichomirov, I., see ARGUS Collaboration ... A275 (1989) 1
Tickle, R.S., see Angius, S.A. ... A273 (1988) 283
Tiecke, H., see ZEUS Calorimeter Group ... A274 (1989) 134
Tikhonov, Yu.A., see Blinov, A.E. ... A273 (1988) 31
Timko, M., see Durkin, L.S. ... A277 (1989) 386
Timko, M., see D0 Calorimeter Group ... A280 (1989) 36
Timmermans, C., see Adeva, B. ... A277 (1989) 187
Timofeev, V.G., see Filatova, N.A. ... A272 (1988) 707
Timofeev, V.G., see Filatova, N.A. ... A279 (1989) 518
Ting, A., see Hafizi, B. ... A272 (1988) 392
Ting, A., see Sprangle, P. ... A272 (1988) 536
Ting, A., see Riyopoulos, S. ... A272 (1988) 543
Ting, J., see Abe, F. ... A271 (1988) 387
Ting, S.C.C., see L3 Collaboration ... A275 (1989) 71
Ting, S.J.Y., see Toothacker, W.S. ... A273 (1988) 97
Tirosh, D. and K. Whittaker, A fast pulse amplifier for pulse radiolysis measurements with digitally controlled dc offset ... A275 (1989) 373
Tiunov, A.V., see Alimov, A.S. ... A278 (1989) 379
Tivelli, A., see Bassato, G. ... A275 (1989) 340
Tobehn, I., see Ebel, F. ... A272 (1988) 626
Tobehn, I., see Ebel, F. ... A274 (1989) 1
Tobiyama, M., see Endo, I. ... A280 (1989) 144
Tocqueville, J., see Arnold, R. ... A273 (1988) 466
Todorovski, T., see Stafilov, T. ... A271 (1988) 321
Todt, W., Isotope dilution measurements of Pb, U and Th concentrations in lorandite from Allchar ... A271 (1988) 251
Toepffer, C., see Vogel, J. ... A272 (1988) 639
Toet, D.Z., see Bloch, D. ... A273 (1988) 847
Toge, N., see Coyle, P. ... A273 (1988) 858
Tojyo, E., see Arai, S. ... A278 (1989) 236
Toki, W., see Adler, J. ... A276 (1989) 42
Tokuda, N., see Watanabe, S.-I. ... A271 (1988) 359
Tokuda, N., see Arai, S. ... A278 (1989) 236
Tokushuku, K., see Ninomiya, M. ... A272 (1988) 727
Tolk, N.H., see Edwards, G.S. ... A272 (1988) 37
Tollestrup, A., see Abe, F. ... A271 (1988) 387
Tomé, F.V. and A.M. Sánchez, A simple method of analysing alpha spectra of environmental natural uranium samples ... A276 (1989) 289
Tomita, Y., see Aoki, S. ... A274 (1989) 64
Tomiyama, T., see Yamashita, Y. ... A274 (1989) 584
Tomizawa, K., see Ninomiya, M. ... A272 (1988) 727
Tomura, H., see Mitarai, S. ... A277 (1989) 491
Tonelli, G., see Abe, F. ... A271 (1988) 387
Tonelli, G., see Batignani, G. ... A273 (1988) 677
Tonelli, G., see Apollinari, G. ... A277 (1989) 138
Tonelli, G., see Batignani, G. ... A277 (1989) 147
Tonelli, G., see Apollinari, G. ... A279 (1989) 396
Toniolo, D., see Benvenuti, A.C. ... A276 (1989) 94
Tonutti, M., see Böhm, A. ... A273 (1988) 471
Tonutti, M., see Bosseler, K. ... A277 (1989) 121
Tonwar, S.C., see Apte, A.R. ... A273 (1988) 403
Toon, G., see Lightfoot, J.A. ... A271 (1988) 636
Toothacker, W., see Engels Jr, E. ... A279 (1989) 272
Toothacker, W.S., S. Trumpinski, J. Whitmore, R.A. Lewis, J. Gress, R. Ammar, D. Coppage, R. Davis, S.

Kanekal, N. Kwak, P.A. Elcombe, J.C. Hill, W.W. Neale, W. Kowald, W.J. Robertson, W.D. Walker, P. Lucas, L. Voyvodic, J.M. Bishop, N.N. Biswas, N.M. Cason, V.P. Kenney, M.C.K. Mattingly, R.C. Ruchti, W.D. Shephard and S.J.Y. Ting, Secondary particle identification using the relativistic rise in ionization ... A273 (1988) 97
Toppano, E., see SICAPO Collaboration ... A279 (1989) 57
Torii, A., see Uwamino, Y. ... A271 (1988) 546
Torquati, M.R., see Angelini, F. ... A276 (1989) 258
Torre, A., see Dattoli, G. ... A272 (1988) 351
Touati, A., see Wohrer, K. ... A274 (1989) 394
Touchard, F., see Coc, A. ... A271 (1988) 512
Touramanis, C., see CPLEAR Collaboration ... A279 (1989) 305
Tovee, D.N., see Aoki, S. ... A274 (1989) 64
Townsend, D., see Dominik, W. ... A278 (1989) 779
Toyama, T., see Sato, H. ... A272 (1988) 617
Toyama, T., see Ohmori, C. ... A278 (1989) 705
Toyoshima, K., see Mitarai, S. ... A277 (1989) 491
Trainor, M.T., see WA76 Collaboration ... A274 (1989) 165
Tran, M.T., see Bay, A. ... A271 (1988) 497
Trang, Q.H., see Cousins, R.D. ... A277 (1989) 517
Tranströmer, G., see CPLEAR Collaboration ... A279 (1989) 305
Trasatti, L., Optical fibers and their applications ... A279 (1989) 354
Trautvetter, H.P., see Seuthe, S. ... A272 (1988) 814
Trautvetter, H.P., see Neldner, K. ... A274 (1989) 419
Trautvetter, H.P., see Wüstenbecker, S. ... A279 (1989) 448
Treadwell, E., see D0 Calorimeter Group ... A280 (1989) 36
Trehan, P.N., see Chand, B. ... A273 (1988) 310
Trent, P., see Aoki, S. ... A274 (1989) 64
Tribble, R.E., see Gagliardi, C.A. ... A273 (1988) 117
Tribollet, E., see Dominik, W. ... A278 (1989) 779
Tricoire, H., see Leblanc, M. ... A273 (1988) 583
Tricoire, H., see Charon, Y. ... A273 (1988) 748
Triggiani, G., see Albrizio, R. ... A271 (1988) 449
Triggiani, G., see Batignani, G. ... A273 (1988) 677
Triggiani, G., see Batignani, G. ... A277 (1989) 147
Trigueiros, A., M. Machida, C.J.B. Pagan and J.G. Reyna-Almandos, A spectroscopic study of radiation produced in a theta-pinch ... A280 (1989) 589
Trinchero, G., see Aglietta, M. ... A277 (1989) 17
Trinchero, G., see Aglietta, M. ... A277 (1989) 23
Trinchero, G.C., see Bari, G. ... A277 (1989) 11
Tripp, R.D., see Alston-Garnjost, M. ... A271 (1988) 475
Trippe, T.G., see Clark, A.R. ... A279 (1989) 243
Trischuk, W., see Abe, F. ... A271 (1988) 387
Trombetti, T., see Molinari, V. ... A280 (1989) 226
Trombka, J.I., see Yin, L.I ... A277 (1989) 619
Troncon, C., see Burns, M. ... A277 (1989) 154
Troncon, C., see Dijkstra, H. ... A277 (1989) 160
Tröster, D.A., see CP-LEAR Collaboration ... A279 (1989) 285
Trumpinski, S., see Toothacker, W.S. ... A273 (1988) 97
Truöl, P., see Robmann, P. ... A277 (1989) 368
Tsang, M.B., see Murakami, T. ... A275 (1989) 112
Tsang, W.Y., see Ansorge, R.E. ... A273 (1988) 826
Tsay, Y., see Abe, F. ... A271 (1988) 387
Tsechanski, A., see Ofek, R. ... A278 (1989) 513
Tserruya, I., see Drees, A. ... A273 (1988) 793
Tserruya, I., see Breskin, A. ... A273 (1988) 798
Tsilimigras, P., see CP-LEAR Collaboration ... A279 (1989) 285
Tsipolitis, G., see ARGUS Collaboration ... A275 (1989) 1
Tsuchiya, K., see Doi, Y. ... A274 (1989) 95
Tsujikawa, H., see Endo, I. ... A280 (1989) 144
Tsukamoto, A., see Homma, Y. ... A274 (1989) 183
Tsunawaki, Y., see Mima, K. ... A272 (1988) 106
Tsuneoka, Y., see Aoki, S. ... A274 (1989) 64

Tsuru, T., see Ohmori, C. ... A278 (1989) 705
Tsuruda, M., see Yamashita, Y. ... A274 (1989) 584
Tsuruno, A., see Ikeda, Y. ... A276 (1989) 183
Tsuruta, T., see Ikeda, Y. ... A276 (1989) 183
Tsyganov, E.N., see Filatova, N.A. ... A272 (1988) 707
Tsyganov, E.N., see Filatova, N.A. ... A279 (1989) 518
Tuffanelli, S., see Artusi, G. ... A279 (1989) 523
Tung, K.L., see Chen, C. ... A272 (1988) 713
Tung, K.L., see L3 Collaboration ... A275 (1989) 71
Tungate, G., see Karban, O. ... A274 (1989) 4
Tungate, G., see Völk, H.-G. ... A279 (1989) 443
Turala, M., see Burns, M. ... A277 (1989) 154
Turala, M., see Dijkstra, H. ... A277 (1989) 160
Turchetta, R., see Burns, M. ... A277 (1989) 154
Turchetta, R., see Dijkstra, H. ... A277 (1989) 160
Turchinetz, W., see Beck, D. ... A277 (1989) 323
Turner, K., see Abe, F. ... A271 (1988) 387
Turtelli, A., see Bari, G. ... A277 (1989) 11
Turtelli Jr., A., see Bui Van, N.A. ... A280 (1989) 419
Turzo, I., see Ribanský, I. ... A271 (1988) 704
Tusi, A., see UA1 Collaboration ... A279 (1989) 114
Tusi, A., see UA1 Experiment ... A279 (1989) 169
Tutas, J., see Braunschweig, W. ... A275 (1989) 246
Tuts, P.M., see D0 Calorimeter Group ... A280 (1989) 36
Tuuva, T., see Burns, M. ... A277 (1989) 154
Tuuva, T., see Dijkstra, H. ... A277 (1989) 160
Tuzzolino, A.J., see Simpson, J.A. ... A279 (1989) 611
Tuzzolino, A.J., see Simpson, J.A. ... A279 (1989) 625
Twerenbold, D., Superconducting tunneling junctions as X-ray detectors and their possible applications in astrophysics ... A273 (1988) 575
Tyapkin, I.A., see Filatova, N.A. ... A272 (1988) 707
Tyapkin, I.A., see Filatova, N.A. ... A279 (1989) 518
Tyndel, M., see Allport, P.P. ... A273 (1988) 630
Tyndel, M., see Burns, M. ... A277 (1989) 154
Tyndel, M., see Dijkstra, H. ... A277 (1989) 160
Tyndel, M., see Joyce, D. ... A279 (1989) 189

UA1 Collaboration, K. Ankoviak, G. Bauer, C. Buchanan, D. Cline, A. Di Ciaccio, H. Evans, T.A. Fuess, S. Geer, A. Gonidec, J. Gronberg, M. Lindgren, M. Mohammadi, R. Munoz, L. Naumann, E. Radermacher, J.-P. Revol, J. Rohlf, C. Rubbia, E. Sadowski, D. Schinzel, C. Seez, W. Seidl, D. Stork, K. Sumorok, S. Tether and X. Wu, Construction and performance of a position detector for the UA1 uranium–TMP calorimeter ... A279 (1989) 83
UA1 Collaboration, F.J. Alvarez-Taviel, C. Bacci, F. Diez-Hedo, P. Doncel, A. Ferrando, A. Givernaud, M.A. Marquina, E. Petrolo, T. Rodrigo, C. Rubbia, A. Tusi and V. Vuillemin, Forward calorimetry in the upgraded UA1 experiment ... A279 (1989) 114
UA1 Experiment, C. Bacci, J. Boniface, R. Bonino, G. Busetto, A. Caner, P. Casoli, P. Cennini, F. Ceradini, J. Colas, R. Conte, M. De Giorgi, F. Lacava, J.C. Lacotte, R. Martinelli, A.T. Meneguzzo, M. Nicoletto, E. Petrolo, A. Tusi, S. Veneziano and L. Zanello, Electronics and readout of the UA1 uranium–TMP calorimeter ... A279 (1989) 169
Ubertini, P., see Court, A.J. ... A273 (1988) 706
Uebayashi, T., see Homma, Y. ... A274 (1989) 183
Ueda, M., see Aramaki, E.A. ... A280 (1989) 597
Uehara, S., see Amako, K. ... A272 (1988) 687
Uehara, S., see Ohgaki, H. ... A273 (1988) 522
Uehara, S.-I., Y. Kawase, S. Nasu and F.E. Fujita, List mode acquisition method for time-differential perturbed angular correlations ... A276 (1989) 543
Ueno, A., K. Ogura, Y. Wakuta, I. Kumabe, K. O-Ohata, Y. Mori and S. Fukumoto, Polarization measurement of atomic hydrogen beam spin-exchanged with optically oriented sodium atoms ... A271 (1988) 343
Ueno, A., see Sato, H. ... A272 (1988) 617
Ueno, A., see Mori, Y. ... A273 (1988) 5
Ueno, A., see Mori, Y. ... A278 (1989) 605

Ueno, A., see Ohmori, C. ... A278 (1989) 705
Uhlenberg, R., see Rost, M. ... A273 (1988) 319
Ukegawa, F., see Abe, F. ... A271 (1988) 387
Ulbricht, J., see Chen, C. ... A272 (1988) 713
Ulbricht, J., see L3 Collaboration ... A275 (1989) 71
Ullmann, J., see McClelland, J.B. ... A276 (1989) 35
Ullrich, H., see Petković, T. ... A273 (1988) 833
Ulrich, A., B. Busch, W. Krötz, G. Ribitzki, J. Wieser and D.E. Murnick, Emission of light from matter excited by heavy-ion beams ... A278 (1989) 72
Underwood, D., see Abe, F. ... A271 (1988) 387
Unnikrishnan, M.P., see Varier, K.M. ... A280 (1989) 428
Uozumi, Y., see Koori, N. ... A278 (1989) 737
Urban, A., see Heinzl, J. ... A271 (1988) 259
Urban, A., see Korschinek, G. ... A271 (1988) 328
Urban, W., see Krämer-Flecken, A. ... A275 (1989) 333
Urbanus, W.H., R.G.C. Wojke, R.J.J.M. Steenvoorden, J.G. Bannenberg, H. Klein, A. Schempp, R.W. Thomae, T. Weis and P.W. Van Amersfoort, Simultaneous transport of N^+ and N_2^+ ions through a periodic focusing quadrupole channel ... A276 (1989) 433
Urbanus, W.H., see Wojke, R.G.C. ... A278 (1989) 318
Urbanus, W.H., J.G. Bannenberg, F.W. Saris, R. Koudijs, P. Dubbelman and W. Koelewijn, Reduction of the X-ray level of dc ion accelerators ... A278 (1989) 339
Ushida, N., see Aoki, S. ... A274 (1989) 64
Ushkanov, V.A., see Alimov, A.S. ... A278 (1989) 379
Utsunomiya, H., Y.-W. Lui and R.P. Schmitt, The particle–particle correlation technique with a broad range magnetic spectrograph and its applications ... A278 (1989) 744
Utsuro, M., see Kawai, T. ... A276 (1989) 408
Uwamino, Y., T.-O. Ohkubo, A. Torii and T. Nakamura, Semi-monoenergetic neutron field for activation experiments up to 40 MeV ... A271 (1988) 546

Vacchi, A., see Gatti, E. ... A273 (1988) 865
Vager, Z., see Hunt, J.E. ... A274 (1989) 597
Vagneron, L., see Guinet, D. ... A278 (1989) 614
Vaknin, D., D.S. Coburn and A.S. Arrott, Vertically bent single crystal silicon wafers as a neutron monochromator (*Letter to the Editor*) ... A273 (1988) 447
Valente, E., see Bakken, J.A. ... A275 (1989) 81
Valente, E., see Bakken, J.A. ... A280 (1989) 25
Valenti, G., see Camporesi, T. ... A277 (1989) 77
Valentin, L., see Leblanc, M. ... A273 (1988) 583
Valentin, L., see Charon, Y. ... A273 (1988) 748
Valković, V. and G. Moschini, Trace-element analysis in environmental sciences ... A280 (1989) 459
Valla, A.S., see Quimby, D.C. ... A272 (1988) 192
Vallania, P., see Bari, G. ... A277 (1989) 11
Vallania, P., see Aglietta, M. ... A277 (1989) 23
Vallée, C., see Braunschweig, W. ... A275 (1989) 246
Valon-Hulth, T., see Ansari, R. ... A279 (1989) 388
Van Amersfoort, P.W., see Wojke, R.G.C. ... A273 (1988) 21
Van Amersfoort, P.W., see Urbanus, W.H. ... A276 (1989) 433
Van Amersfoort, P.W., see Wojke, R.G.C. ... A278 (1989) 318
Van Apeldoorn, G., see Bloch, D. ... A273 (1988) 847
Van Ausdeln, L.A., see Gagliardi, C.A. ... A273 (1988) 117
Van Berg, R., see Abe, F. ... A271 (1988) 387
Van Dam, H., see Ciftcioglu, Ö. ... A278 (1989) 532
Van der Graaf, H., see Duinker, P. ... A273 (1988) 814
Van der Graaf, H., see Adeva, B. ... A277 (1989) 187
Van der Laan, G., see Goedkoop, J.B. ... A273 (1988) 429
Van der Sluis, S.M., see Van Eijk, C.W.E. ... A273 (1988) 764
Van der Stad, R., see ZEUS Calorimeter Group ... A274 (1989) 134
Van Doninck, W., see Daubie, E. ... A273 (1988) 553
Van Eijk, C.W.E., see Schotanus, P. ... A272 (1988) 913
Van Eijk, C.W.E., see Schotanus, P. ... A272 (1988) 917
Van Eijk, C.W.E., see Duijn, J.H. ... A273 (1988) 541

Van Eijk, C.W.E., see Okx, W.J.C. ... A273 (1988) 544
Van Eijk, C.W.E., see Okx, W.J.C. ... A273 (1988) 548
Van Eijk, C.W.E., R.W. Hollander and S.M. Van der Sluis, An MWPC for beta radiochromatography ... A273 (1988) 764
Van Eijk, C.W.E., see Schotanus, P. ... A273 (1988) 886
Van Eijk, C.W.E., see Schooneveld, E.M. ... A275 (1989) 597
Van Ingen, C., see Abe, F. ... A271 (1988) 387
Van Melle, J.C.C., G.J. Van Nieuwenhuizen, R.J. Meijer, P.F. Box, P. Decowski and R. Kamermans, Pulse shape analysis of CsI(Tl)-PD signals induced by 6–20 MeV α-particles and protons ... A277 (1989) 584
Van Nieuwenhuizen, G.J., see Van Melle, J.C.C. ... A277 (1989) 584
Van Peteghem, P.M., see DiBitonto, D. ... A279 (1989) 100
Van Putten, A.E., see Wojke, R.G.C. ... A273 (1988) 21
Van Tricht, J.B., see Kraan, W.H. ... A276 (1989) 521
Van Veen, A., see Britton, D.T. ... A273 (1988) 343
Van Veen, A., see Britton, D.T. ... A275 (1989) 387
Vander Molen, A., see Angius, S.A. ... A273 (1988) 283
Vanecek, D., see Rutkowski, H.L. ... A278 (1989) 206
Vanhorenbeeck, J., see Lagrange, J.M. ... A271 (1988) 527
Vannini, C., see Benvenuti, A.C. ... A276 (1989) 94
Vannucci, A., I.C. Nascimento, I.C. Oliveira, E.K. Sanada and K.A. De Oliveira, Electron temperature measurements in the TBR-1 tokamak by the two-foil absorbing method ... A280 (1989) 593
Vanstraelen, G., I. Debusschere, C. Claeys and G. Declerck, New concepts for integrated solid state detector electronics ... A273 (1988) 625
Vanstraelen, G., I. Debusschere, C. Claeys and G. Declerck, Fully integrated CMOS pixel detector for high energy particles ... A275 (1989) 574
Vanuxem, J.P., see Burns, M. ... A277 (1989) 154
Varelas, N., see Engels Jr, E. ... A279 (1989) 272
Variale, V., see Boscolo, I. ... A275 (1989) 184
Variale, V., see Boscolo, I. ... A279 (1989) 646
Varier, K.M. and M.P. Unnikrishnan, Elastic and inelastic scattering of 59.54 keV gamma rays ... A280 (1989) 428
Vascon, M., see Bacchetta, N. ... A273 (1988) 172
Vasconcellos, M.A.Z., S.R. Teixeira, P.H. Dionisio, W.H. Schreiner and I.J.R. Baumvol, ^{57}Fe CEMS characterization of iron–aluminum thin-film alloys ... A280 (1989) 557
Vasileyev, V., see Bari, G. ... A277 (1989) 11
Vasilyev, N.A., see Balabayev, A.N. ... A278 (1989) 148
Vassiliadis, G., see WA76 Collaboration ... A274 (1989) 165
Va'vra, J., see Coyle, P. ... A273 (1988) 858
Vávra, J., see Michalec, R. ... A278 (1989) 617
Vértes, A., see Szeles, Cs. ... A271 (1988) 688
Vegni, G., see Burns, M. ... A277 (1989) 154
Vegni, G., see Dijkstra, H. ... A277 (1989) 160
Velarde, G., J.M. Aragonés, L. Gámez, C. González, J.J. Honrubia, J.M. Martínez-Val, E. Mínguez, J.L. Ocaña, J.M. Perlado and P.M. Velarde, Recent results in the analysis of heavy-ion-beam-driven ICF targets ... A278 (1989) 105
Velarde, P.M., see Velarde, G. ... A278 (1989) 105
Velasco, J., see Checchia, P. ... A275 (1989) 49
Velasco, J., see DELPHI Forward ElectroMagnetic Group ... A279 (1989) 473
Velghe, M., see Prazeres, R. ... A272 (1988) 68
Velghe, M., see Couprie, M.E. ... A272 (1988) 166
Veneziano, S., see UA1 Experiment ... A279 (1989) 169
Ventura, L., see Checchia, P. ... A275 (1989) 49
Ventura, L., see DELPHI Forward ElectroMagnetic Group ... A279 (1989) 473
Venturelli, L., see SICAPO Collaboration ... A279 (1989) 57
Verdier, R., see Benvenuti, A.C. ... A276 (1989) 94
Verdini, P.G., see Benvenuti, A.C. ... A276 (1989) 94
Verdini, P.G., see Beconcini, F. ... A277 (1989) 222
Vermeiren, J., see Dierickx, B. ... A275 (1989) 527
Vernetto, S., see Bari, G. ... A277 (1989) 11
Vernetto, S., see Aglietta, M. ... A277 (1989) 23
Vernois, J., see Mouadili, A. ... A280 (1989) 485
Verrecchia, P., see Braunschweig, W. ... A275 (1989) 246
Veselinović, D., see Bugarski, P. ... A271 (1988) 320
Vesić, D. and I.V. Aničin, Some practical aspects of gamma-ray spectroscopy of voluminous cylindrical sources

with germanium detectors ... A276 (1989) 216
Vetlitsky, I., see L3 Collaboration ... A275 (1989) 71
Vetrano, F., see Bari, G. ... A277 (1989) 11
Vetterli, D., see Jaskóla, M. ... A273 (1988) 441
Viano, J.B., see Guinet, D. ... A278 (1989) 614
Vidal, R., see Abe, F. ... A271 (1988) 387
Viertel, G., see Böhm, A. ... A273 (1988) 471
Vieu, Ch., see Lagrange, J.M. ... A271 (1988) 527
Vignon, B., see Ait-Boubker, S. ... A277 (1989) 461
Vilain, P., see De Winter, K. ... A277 (1989) 83
Vilain, P., see De Winter, K. ... A277 (1989) 170
Vilain, P., see CHARM II Collaboration ... A278 (1989) 670
Villa, F., see Adler, J. ... A276 (1989) 42
Villa, G., see Court, A.J. ... A273 (1988) 706
Villalobos Baillie, O., see WA76 Collaboration ... A274 (1989) 165
Villalobos-Baillie, O., see Angelini, C. ... A277 (1989) 132
Villar, J.A., see Larrea, A. ... A273 (1988) 218
Villari, A., see SICAPO Collaboration ... A279 (1989) 57
Villet, G., see Braunschweig, W. ... A275 (1989) 246
Vincent, P., R. Debbe, A. Pfoh and M. Abreu, The E802 aerogel Cherenkov detector ... A272 (1988) 660
Vinokurov, V.A., see Kiyashko, V.A. ... A278 (1989) 249
Vintro, L., see Bhowmik, A. ... A272 (1988) 10
Vintro, L., see Curtin, M.S. ... A272 (1988) 187
Vis, R.D., see Orlić, I. ... A276 (1989) 202
Vismara, L., see Ferri, G. ... A273 (1988) 123
Vismara, L., see SICAPO Collaboration ... A279 (1989) 57
Vismara, L., see SICAPO Collaboration ... A279 (1989) 66
Vismara, L., see Borchi, E. ... A279 (1989) 277
Vittoz, E.A., Tradeoffs in low-power CMOS analog circuits for pixel detectors ... A275 (1989) 472
Vivargent, M., see Bakken, J.A. ... A275 (1989) 81
Vivargent, M., see Bakken, J.A. ... A280 (1989) 25
Viyogi, Y.P., see Bandyopadhyaya, S.K. ... A278 (1989) 467
Vlad, M., M. Ganciu, M. Ivaşcu, N. Mandache, F. Spineanu and V. Zoiţa, Preliminary results on time resolving spectrometry for neutrons emitted in plasma focus discharges (*Letter to the Editor*) ... A274 (1989) 613
Voci, C., see Gasparini, F. ... A273 (1988) 485
Vodopianov, A.S., see Filatova, N.A. ... A272 (1988) 707
Vodopianov, A.S., see Filatova, N.A. ... A279 (1989) 518
Vogel, E., see Braunschweig, W. ... A275 (1989) 246
Vogel, J. and C. Toepffer, Electronic recombination in a nonequilibrium plasma. Application to electronic cooling of heavy ion beams ... A272 (1988) 639
Vogt, J.M., see Gothe, R.W. ... A276 (1989) 233
Völk, H.-G., H. Leucker, K. Becker, K. Blatt, W. Korsch, W. Luck, H. Reich, G. Tungate, D. Fick, R. Butsch, H.J. Jänsch, E. Steffens and A. Weller, A Coulomb polarimeter for polarized heavy-ion beams ... A279 (1989) 443
Volkov, S., see Adeva, B. ... A277 (1989) 187
Von Brentano, P., see Koch, H.R. ... A271 (1988) 375
Von Dincklage, R., see Tengblad, O. ... A273 (1988) 257
Von Egidy, T., see Durner, P. ... A278 (1989) 484
Von Feilitzsch, F., T. Hertrich, H. Kraus, Th. Peterreins, F. Pröbst and W. Seidel, Low temperature calorimeters ... A271 (1988) 332
Von Feilitzsch, F., see Pröbst, F. ... A280 (1989) 251
Von Goeler, E., see Moromisato, J.H. ... A274 (1989) 177
Von Goeler, E., see Braunschweig, W. ... A275 (1989) 246
Von Goeler, E., see Bari, G. ... A277 (1989) 11
Von Gunten, H.P., see Fabbretti, R. ... A280 (1989) 13
Von Wimmersperg, U., S.H. Connell, R.F.A. Hoernle, E. Sideras-Haddad and J.P.F. Sellschop, A positron source produced by a tandem Van de Graaff accelerator for use in a relativistic energy spectrometer designed for symmetrical mass systems ... A271 (1988) 383
Von Witsch, W., see Köble, T. ... A275 (1989) 460
Vorenkamp, T., see Duinker, P. ... A273 (1988) 814
Vorobiev, I., see L3 Collaboration ... A275 (1989) 71
Voronkov, E.N., see Yeremin, A.V. ... A274 (1989) 528
Votano, L., see Bari, G. ... A277 (1989) 11

Votruba, M.F., see WA76 Collaboration ... A274 (1989) 165
Votruba, M.F., see Angelini, C. ... A277 (1989) 132
Voutilainen, M., see Eerola, P. ... A273 (1988) 841
Voyvodic, L., see Toothacker, W.S. ... A273 (1988) 97
Vrba, I., see Anisimov, Yu.S. ... A273 (1988) 731
Vuillemin, V., see UA1 Collaboration ... A279 (1989) 114
Vuillemin, V., see Joyce, D. ... A279 (1989) 189
Vuillemin, V., see Beingessner, S.P. ... A279 (1989) 253
Vuilleumier, L., see Bakken, J.A. ... A275 (1989) 81
Vuilleumier, L., see Bakken, J.A. ... A280 (1989) 25
Vukanović, R., see Aničin, I.V. ... A271 (1988) 264
Vylet, V. and A. Kumar, Energy response of Bonner spheres to neutrons in parallel beam and point source geometries ... A271 (1988) 607
Vylet, V., see Davis, A.J. ... A276 (1989) 347

WA76 Collaboration, T.A. Armstrong, M. Benayoun, W. Beusch, I.J. Bloodworth, M. Caponero, J.N. Carney, R. Childs, B.R. French, B. Ghidini, Y. Goldschmidt-Clermont, A. Jacholkowski, J. Kahane, J.B. Kinson, A. Kirk, V. Lenti, Ph. Leruste, A. Malamant, J.L. Narjoux, F. Navach, A. Palano, E. Quercigh, N. Redaelli, L. Rossi, M. Sené, R. Sené, H.R. Shaylor, M. Stassinaki, M.T. Trainor, G. Vassiliadis, O. Villalobos Baillie, M.F. Votruba, G. Zito and R. Zitoun, Use of silicon microstrip detectors for precise measurement of high momenta ... A274 (1989) 165
Waanders, F.B., see Seuthe, S. ... A272 (1988) 814
Wada, R., see Engelage, J. ... A277 (1989) 431
Wada, T., see Yamashita, Y. ... A274 (1989) 584
Wada, T., see Chiba, M. ... A276 (1989) 122
Wada, T., see Bari, G. ... A277 (1989) 11
Waddington, J.C., Comment on "Unfolding the response function of high-quality germanium detectors" by Love and Nelson (*Letter to the Editor*) ... A274 (1989) 608
Wadley, W., see Adler, J. ... A276 (1989) 42
Waelbroeck, F., see Bourianoff, G. ... A272 (1988) 340
Waelbroeck, H., see Bourianoff, G. ... A272 (1988) 340
Wagner, P., see Guillaume, G. ... A277 (1989) 458
Wagner, R.G., see Abe, F. ... A271 (1988) 387
Wagner, R.G., see Gabutti, A. ... A278 (1989) 425
Wagner, R.L., see Abe, F. ... A271 (1988) 387
Wahl, H., see Deutsch, C. ... A278 (1989) 38
Wahl, H., see Weyrich, K. ... A278 (1989) 52
Wahl, H., see Jacoby, J. ... A278 (1989) 82
Wahl, H.D., see D0 Calorimeter Group ... A280 (1989) 36
Wainer, N., see Dwurażny, A. ... A277 (1989) 176
Wait, G.D., see Shin, Y.M. ... A274 (1989) 227
Wait, G.D., P.P.J. Delheij and D.C. Healey, NMR measurements on the TRIUMF polarized deuterium target ... A274 (1989) 515
Wakuta, Y., see Ueno, A. ... A271 (1988) 343
Waldi, R., see ARGUS Collaboration ... A275 (1989) 1
Waldner, F., see Checchia, P. ... A275 (1989) 49
Waldner, F., see DELPHI Forward ElectroMagnetic Group ... A279 (1989) 473
Walk, W., see Bakken, J.A. ... A275 (1989) 81
Walk, W., see Bakken, J.A. ... A280 (1989) 25
Walker, J., see Zorn, C. ... A271 (1988) 701
Walker, J., see Zorn, C. ... A273 (1988) 108
Walker, J., see O'Dwyer, M.A. ... A273 (1988) 898
Walker, J., see Zorn, C. ... A276 (1989) 58
Walker, J., see Bowen, M. ... A276 (1989) 391
Walker, J.K., see Womersley, W.J. ... A278 (1989) 447
Walker, R.N.F., see Fowler, P.H. ... A275 (1989) 175
Walker, W.D., see Toothacker, W.S. ... A273 (1988) 97
Walles, S., see Baillon, P. ... A277 (1989) 338
Waloschek, P., see Bürger, J. ... A279 (1989) 217
Walsh, J., see Abe, F. ... A271 (1988) 387
Walsh, J., C. Shaughnessy, R. Layman, G. Dattoli, G-P. Gallerano and A. Renieri, Preliminary results from a microwave-driven 100 μm wavelength Cherenkov FEL experiment ... A272 (1988) 132

Walsh, R.L., see Bakich, A.M. ... A278 (1989) 565
Walther, A., see Braunschweig, W. ... A275 (1989) 246
Walther, H., see Gea-Banacloche, J. ... A272 (1988) 199
Walther, V.H., see Richter, A.W. ... A274 (1989) 249
Walton, D.M., see Lapington, J.S. ... A273 (1988) 506
Walton, D.M., see Lapington, J.S. ... A273 (1988) 663
Walton, J.T., see Alston-Garnjost, M. ... A271 (1988) 475
Wang Youzhi, see Xie Jialin ... A272 (1988) 40
Wang, C.N., see Chen, C. ... A272 (1988) 713
Wang, G., E.K. Warburton and D.E. Alburger, Precision energy determinations of gamma transitions from ^{56}Co decay ... A272 (1988) 791
Wang, H., see Artusi, G. ... A279 (1989) 523
Wang, H., see D0 Calorimeter Group ... A280 (1989) 36
Wang, J.-J., K.-J. Kang and R.S. Larsen, A theoretical model of a fast waveform sampling switch ... A280 (1989) 95
Wang, J.H., see L3 Collaboration ... A275 (1989) 71
Wang, J.H., see Adeva, B. ... A277 (1989) 187
Wang, J.X., see Wohrer, K. ... A274 (1989) 394
Wang, Q.F., see Adeva, B. ... A277 (1989) 187
Wang, S.W., see Bari, G. ... A277 (1989) 11
Wangler, T.P., see Stovall, J.E. ... A278 (1989) 143
Warburton, E.K., see Wang, G. ... A272 (1988) 791
Ward, W., see Perez-Mendez, V. ... A273 (1988) 127
Ward, W., see Kaplan, S.N. ... A273 (1988) 611
Warren, R.W., see Goldstein, J.C. ... A272 (1988) 150
Warren, R.W. and J.C. Goldstein, The generation and suppression of synchrotron sidebands ... A272 (1988) 155
Warren, R.W., see Carlsten, B.E. ... A272 (1988) 247
Warren, R.W., Limitations on the use of the pulsed-wire field measuring technique ... A272 (1988) 257
Warwick, A.I., see Meuth, H. ... A278 (1989) 153
Wasserbaech, S., see Adler, J. ... A276 (1989) 42
Watanabe, K., see Endo, I. ... A280 (1989) 144
Watanabe, S., see Aoki, S. ... A274 (1989) 64
Watanabe, S., see Chubaci, J.F.D. ... A280 (1989) 410
Watanabe, S., see Tatumi, S.H. ... A280 (1989) 510
Watanabe, S.-I., A. Noda, M. Takanaka, N. Tokuda, S. Yamada, M. Yoshizawa, T. Hattori, T. Katayama and Y. Hirao, Beam stacking experiments at the ion accumulation ring TARN ... A271 (1988) 359
Watanabe, T., see Tanabe, T. ... A278 (1989) 241
Watanabe, Y., see Noguchi, S. ... A271 (1988) 404
Watanabe, Y., see Kawashima, Y. ... A274 (1989) 241
Waterhouse, J., see Armitage, J.C. ... A271 (1988) 588
Waterhouse, J., see Wong, L. ... A273 (1988) 476
Waterhouse, J., see Roney, J.M. ... A279 (1989) 236
Watson, A.A., see Smith, N.J.T. ... A276 (1989) 622
Watson, A.T., see Barber, G.J. ... A279 (1989) 212
Watson, E.J., see CP-LEAR Collaboration ... A279 (1989) 285
Watson, J.W., M.R. Plumley, P.J. Pella, B.D. Anderson, A.R. Baldwin and R. Madey, A high-performance polarimeter for medium-energy neutrons ... A272 (1988) 750
Watt, D.E., C.E. Sykes and A.-R.S. Younis, Model predictions and analysis of enhanced biological effectiveness at low dose rates ... A280 (1989) 495
Watts, S.J., see Damerell, C.J.S. ... A275 (1989) 484
Watts, S.J., see Roy, T. ... A275 (1989) 545
Watts, T., see Abe, F. ... A271 (1988) 387
Waysand, G., see De Bellefon, A. ... A277 (1989) 211
Weaver, D.R., see Croft, S. ... A275 (1989) 172
Weaver, D.R., see Croft, S. ... A276 (1989) 614
Weaver, D.R., see Croft, S. ... A280 (1989) 123
Webb, M.L., see Engelage, J. ... A277 (1989) 431
Webb, R., see Abe, F. ... A271 (1988) 387
Webb, S., see Bateman, J.E. ... A273 (1988) 767
Weber, P., see Petković, T. ... A273 (1988) 833
Weber, T., see Coyle, P. ... A273 (1988) 858
Weber, Th., see Wilke, W. ... A272 (1988) 785

Websdale, D.M., see Angelini, C. ... A277 (1989) 132
Webster, M., see Matsuno, S. ... A276 (1989) 359
Weekes, T.C., Gamma-ray astronomy at the highest energies ... A280 (1989) 349
Weerasundara, P.D., see Engels Jr, E. ... A279 (1989) 272
Weerts, H., see Womersley, W.J. ... A278 (1989) 447
Weerts, H., see D0 Calorimeter Group ... A280 (1989) 36
Wefel, J.P., see Hof, M. ... A276 (1989) 628
Wegener, D., see Buchner, U. ... A272 (1988) 695
Wegener, D., see ARGUS Collaboration ... A275 (1989) 1
Wegener, D., see Braunschweig, W. ... A275 (1989) 246
Wei, Z.Y., see Yin, Z.W. ... A275 (1989) 273
Weidberg, A.R., see Ansorge, R.E. ... A273 (1988) 826
Weidberg, A.R., see Alitti, J. ... A279 (1989) 364
Weil, R., see Bakken, J.A. ... A280 (1989) 25
Weilhammer, P., see Burns, M. ... A277 (1989) 154
Weilhammer, P., see Dijkstra, H. ... A277 (1989) 160
Weill, R., see Bakken, J.A. ... A275 (1989) 81
Weinfurter, H. and G. Badurek, Broadband spin inversion of cold and thermal neutrons by improved radio frequency gradient flippers ... A275 (1989) 233
Weingärtner, K., see Heeg, P. ... A278 (1989) 452
Weinstein, A.J., see Sadrozinski, H.F.-W. ... A277 (1989) 92
Weinstein, A.J., see Sadrozinski, H.F.-W. ... A279 (1989) 223
Weintraub, R., see Jibaly, M. ... A273 (1988) 161
Weinstein, R., see Braunschweig, W. ... A275 (1989) 246
Weinstein, R., see Bari, G. ... A277 (1989) 11
Weis, T., see Wojke, R.G.C. ... A273 (1988) 21
Weis, T., see Urbanus, W.H. ... A276 (1989) 433
Weis, T., R. Dölling, P. Gross, H. Klein and J. Wiegand, Space-charge neutralization in low-energy beam lines ... A278 (1989) 224
Weis, T., see Wojke, R.G.C. ... A278 (1989) 318
Weise, K. and M. Matzke, A priori distributions from the principle of maximum entropy for the Monte Carlo unfolding of particle energy spectra ... A280 (1989) 103
Weisskopf, M.C., see Agrawal, P.C. ... A277 (1989) 557
Weller, A., see Völk, H.-G. ... A279 (1989) 443
Wells, P.S., see Ansorge, R.E. ... A273 (1988) 826
Wells, P.S., see Alitti, J. ... A279 (1989) 364
Wells, P.S., see Ansari, R. ... A279 (1989) 388
Weltz, J., see Köble, T. ... A275 (1989) 460
Wemmers, G., see Fabbretti, R. ... A280 (1989) 13
Wen, C., see Brede, H.J. ... A274 (1989) 332
Wenaus, T., see Adeva, B. ... A277 (1989) 187
Weng Zhenshan, see Liu Weiren ... A272 (1988) 50
Wenzel, W.A., see D0 Calorimeter Group ... A280 (1989) 36
Weseler, S., see ARGUS Collaboration ... A275 (1989) 1
Westenius, M., see Lavergne-Gosselin, L. ... A276 (1989) 210
Westenskow, G.A., see Throop, A.L. ... A272 (1988) 15
Westerberg, L., see Lavergne-Gosselin, L. ... A276 (1989) 210
Westfall, G.D., see Angius, S.A. ... A273 (1988) 283
Westhusing, T., see Abe, F. ... A271 (1988) 387
Weyer, H.-J., see Petković, T. ... A273 (1988) 833
Weyrich, K., see Deutsch, C. ... A278 (1989) 38
Weyrich, K., D.H.H. Hoffmann, J. Jacoby, H. Wahl, R. Noll, R. Haas, H. Kunze, R. Bimbot, D. Gardès, M.-F. Rivet, C. Deutsch and C. Fleurier, Energy loss of heavy ions in a hydrogen discharge plasma ... A278 (1989) 52
Weyrich, K., see Jacoby, J. ... A278 (1989) 82
Whang, M.H. and S.P. Kuo, Self-focusing of laser pulses in magnetized relativistic electron beams ... A272 (1988) 477
Whealton, J.H., see Murphy, B.D. ... A275 (1989) 157
Whitaker, J.S., see Bartha, G.T. ... A275 (1989) 59
White, A.P., see Barber, G.J. ... A279 (1989) 212
White, A.P., see D0 Calorimeter Group ... A280 (1989) 36
White, D.J., see Harnew, N. ... A279 (1989) 290
White, J.T., see DiBitonto, D. ... A279 (1989) 100
White, M., see Adeva, B. ... A277 (1989) 187

White, M.L., see Szeles, Cs. ... A271 (1988) 688
White, S., see Abe, F. ... A271 (1988) 387
White, T.O., Scintillating fibres ... A273 (1988) 820
White, T.O., see Ansorge, R.E. ... A273 (1988) 826
White, T.O., see Alitti, J. ... A279 (1989) 364
White, V., see Abe, F. ... A271 (1988) 387
Whitlow, H.J. and G. Possnert, Symposium of North Eastern Accelerator Personnel, eds. E.D. Berners, U. Garg and C.P. Browne ... A272 (1988) 925
Whitmore, J., see Toothacker, W.S. ... A273 (1988) 97
Whitmore, J., see Engels Jr, E. ... A279 (1989) 272
Whitney, R., see Beck, D. ... A277 (1989) 323
Whittaker, K., see Tirosh, D. ... A275 (1989) 373
Whitten Jr, C.A., see Ling, A. ... A275 (1989) 277
Whyley, R.J., see Cousins, R.D. ... A277 (1989) 517
Wick, K., G. Riedel, D. Paul and V. Stieber, Radiation damage of wavelength shifters and its recovery in the presence of oxygen ... A277 (1989) 251
Wickens, F.J., see Damerell, C.J.S. ... A275 (1989) 484
Wicklund, A., see Abe, F. ... A271 (1988) 387
Widdau, S., see Kurz, R. ... A273 (1988) 273
Widgoff, M., see Braunschweig, W. ... A275 (1989) 246
Widgoff, M., see Bari, G. ... A277 (1989) 11
Wiedemann, G., see Bähr, J. ... A274 (1989) 145
Wiedenbeck, M.E., see Leske, R.A. ... A277 (1989) 627
Wiegand, J., see Weis, T. ... A278 (1989) 224
Wieloch, A., see Łukasik, J. ... A274 (1989) 265
Wieser, J., see Ulrich, A. ... A278 (1989) 72
Wiggenhauser, H., see Rettig, W. ... A277 (1989) 677
Wightman, J.A., S.D. Adrian, D.B. Barlow, A.D. Eichon, B.M.K. Nefkens and C. Pillai, Design of large counters for medium energy neutrons ... A275 (1989) 281
Wightman, J.A., see Kessler, R.S. ... A275 (1989) 285
Wigmans, R., see Hartjes, F.G. ... A277 (1989) 379
Wigmans, R., see Desalvo, R. ... A279 (1989) 467
Wildi, M., see CPLEAR Collaboration ... A279 (1989) 305
Wilhelm, R., see Adeva, B. ... A277 (1989) 187
Wilke, W., H. Brückel, R.D. Heil, U. Kneissl, H. Ströher and Th. Weber, A 4π double obelisk of position sensitive PPACs for new vistas in photofission experiments ... A272 (1988) 785
Wilkins, S.W., see Rae, S.C. ... A274 (1989) 560
Wilkinson, D.H., Evaluation of beta-decay. I. The tradiational phase space factors ... A275 (1989) 378
Wille, K., The FEL storage ring project DELTA ... A272 (1988) 59
Williams, D., see Coyle, P. ... A273 (1988) 858
Williams, D., see Benvenuti, A.C. ... A276 (1989) 94
Williams, H.H., see Abe, F. ... A271 (1988) 387
Williams, S., see Coyle, P. ... A273 (1988) 858
Williamson, C., see Beck, D. ... A277 (1989) 323
Willmott, C., see Adeva, B. ... A277 (1989) 187
Willutzky, M., see Bari, G. ... A277 (1989) 11
Wilmerding, A., see Powell, C. ... A271 (1988) 41
Wilquet, G., see De Winter, K. ... A277 (1989) 83
Wilquet, G., see De Winter, K. ... A277 (1989) 170
Wilquet, G., see CHARM II Collaboration ... A278 (1989) 670
Wilson, C., see Matsuno, S. ... A276 (1989) 359
Wilson, C.C., see Forsyth, J.B. ... A273 (1988) 741
Wilson, E.J.N., see Gundel, H. ... A280 (1989) 1
Wilson, F.F., see Harnew, N. ... A279 (1989) 290
Wilson, M., see Penner, S. ... A272 (1988) 73
Wilson, O.J. and S.A. Short, Geometric efficiencies of circular detector and surface source arrangements – Numerical solution and experimental verification ... A271 (1988) 644
Wilson, O.J., Radon transport in an activated charcoal canister ... A275 (1989) 163
Wilson, R., see Cates, G.D. ... A278 (1989) 293
Wilson, R., see Goodman, M.S. ... A278 (1989) 441
Wilson, R.J., see Bartha, G.T. ... A275 (1989) 59

Wimpenny, S.J., see D0 Collaboration ... A279 (1989) 107
Wimpenny, S.J., see Droege, T.F. ... A279 (1989) 359
Wimpenny, S.J., see D0 Calorimeter Group ... A280 (1989) 36
Winch, T., see Abe, F. ... A271 (1988) 387
Winchester, T.A. and R.L. Dalglish, A technique for computing the first order focusing properties of an arbitrary static electric field ... A273 (1988) 77
Wingerter, I., see Aubert, B. ... A279 (1989) 126
Winhold, E.J., see Gothe, R.W. ... A276 (1989) 233
Winkler, M., see Jacoby, J. ... A278 (1989) 82
Winkler, M., see Heimrich, B. ... A278 (1989) 202
Winkler, R. and G. Rosner, Proportional counter for low-level ^{241}Pu measurement ... A274 (1989) 359
Winter, G.G., see Bürger, J. ... A279 (1989) 217
Winter, K., see De Winter, K. ... A277 (1989) 83
Winter, K., see De Winter, K. ... A277 (1989) 170
Winter, K., see CHARM II Collaboration ... A278 (1989) 670
Wisniewski, W., see Adler, J. ... A276 (1989) 42
Wohlfarth, D., see Manfrass, P. ... A273 (1988) 904
Wohrer, K., A. Touati, P. Chevallier, A. Chetioui, J.P. Rozet, P. Bouisset and J.X. Wang, Polarization factor measurements of flat crystals using synchrotron radiation ... A274 (1989) 394
Wojcik, R., see Zorn, C. ... A271 (1988) 701
Wojcik, R., see Zorn, C. ... A273 (1988) 108
Wojcik, R., see Jibaly, M. ... A273 (1988) 161
Wojcik, R., see Zorn, C. ... A276 (1989) 58
Wojke, R.G.C., F. Siebenlist, A.E. Van Putten, P.W. Van Amersfoort, H. Klein, A. Schempp, R.W. Thomae and T. Weis, Variation of the synchronous phase in a multichannel accelerator for light ions ... A273 (1988) 21
Wojke, R.G.C., see Urbanus, W.H. ... A276 (1989) 433
Wojke, R.G.C., W.H. Urbanus, R.J.J.M. Steenvoorden, J.G. Bannenberg, H. Klein, A. Schempp, R.W. Thomae, T. Weis and P.W. Van Amersfoort, Tailoring of the rf properties of a multichannel accelerator for MeV energies ... A278 (1989) 318
Wojtasiewicz, A., see ISOCELE Collaboration ... A274 (1989) 485
Wojtkowska, J., see Filatova, N.A. ... A272 (1988) 707
Wolf, A., see Schuch, R. ... A276 (1989) 445
Wolf, B.H., see Spädtke, P. ... A278 (1989) 643
Wolf, F.-P. and W. Peatman, Precise, continuous determination of source position and emission angle in synchrotron radiation sources ... A278 (1989) 598
Wölfle, S., see Giorginis, G. ... A273 (1988) 650
Wolfs, F.L.H., see Rehm, K.E. ... A273 (1988) 262
Wollmann, G., see Köble, T. ... A275 (1989) 460
Wollnik, H., see Antl, M. ... A274 (1989) 45
Wollnik, H., see Nestle, H. ... A276 (1989) 568
Wollnik, H., see Jacoby, J. ... A278 (1989) 82
Wollnik, H., see Heimrich, B. ... A278 (1989) 202
Wolski, D., see Białkowski, J. ... A275 (1989) 322
Wolynec, E., Real and virtual radiation ... A280 (1989) 358
Womersley, W.J., J.K. Walker, D. Bogert, L. Stutte, J. Bofill, J.I. Friedman, S. Fuess, M.C. Goodman, H.W. Kendall, V. Kistiakowsky, T. Lyons, L.S. Osborne, R.E. Pitt, B. Strongin, F.E. Taylor, M. Abolins, R. Brock, W.G. Cobau, R.W. Hatcher, D. Owen, G.J. Perkins, M. Tartaglia and H. Weerts, Erratum to "hadron showers in a low-density fine-grained flash chamber calorimeter" ... A278 (1989) 447
Womersley, W.J., see D0 Calorimeter Group ... A280 (1989) 36
Wong, H.V., see Berk, H.L. ... A271 (1988) 107
Wong, H.V., see Bourianoff, G. ... A272 (1988) 340
Wong, J., see Garrison, J.C. ... A272 (1988) 279
Wong, L., J. Armitage and J. Waterhouse, Measurements of the anisotropy ratio between longitudinal and transverse diffusion in argon based gas mixtures ... A273 (1988) 476
Wood, D.R., see Alitti, J. ... A279 (1989) 364
Woods, C.L., see Ophel, T.R. ... A272 (1988) 734
Woods, P.J., S.J. Bennett, M. Freer, B.R. Fulton, R.D. Page, K.A. Connell, R.A. Cunningham, J. Groves, J. Simpson, A.N. James, M.A.C. Hotchkis and W.D.M. Rae, A detection system for the study of alpha and proton radioactivity on the Daresbury recoil mass separator ... A276 (1989) 195
Woods, S.A., P. Christmas, P. Cross, S.M. Judge and W. Gelletly, Decay studies of ^{237}Np with an iron-free $\pi\sqrt{2}$ double-focusing β-ray spectrometer of improved efficiency, Nucl. Instr. and Meth. A264 (1988) 333–356 ... A272 (1988) 924

Woodward, C.E., see Milner, R.G. ... A274 (1989) 56
Worgan, J., see Lewis, R. ... A273 (1988) 773
Worley, A., see Fowler, P.H. ... A275 (1989) 175
Worthington, J.N., see Napolitano, J.J. ... A274 (1989) 152
Wotton, S.A., see Ansorge, R.E. ... A273 (1988) 826
Wotton, S.A., see Alitti, J. ... A279 (1989) 364
Wright, D., see Roy, T. ... A275 (1989) 545
Wrulich, A., see Bocchetta, C.J. ... A278 (1989) 807
Wu Tielong, see Liu Weiren ... A272 (1988) 50
Wu, G.-H., see Engels Jr, E. ... A279 (1989) 272
Wu, R.J., see L3 Collaboration ... A275 (1989) 71
Wu, X., see UA1 Collaboration ... A279 (1989) 83
Wu, Y.R., see Bari, G. ... A277 (1989) 11
Wülker, M., see Bamberger, A. ... A277 (1989) 46
Wurth, R., see ARGUS Collaboration ... A275 (1989) 1
Wüstenbecker, S., H. Ebbing, W.H. Schulte, H. Baumeister, H.W. Becker, B. Cleff, C. Rolfs, H.P. Trautvetter, G.E. Mitchell, J.S. Schweitzer and C.A. Peterson, Improvements in targetry and high voltage stability for high resolution ion beam experiments ... A279 (1989) 448
Wyatt, T.R., see Carter, J.R. ... A278 (1989) 725
Wynen, T., see Bakken, J.A. ... A275 (1989) 81
Wynen, T., see Bakken, J.A. ... A280 (1989) 25
Wyslouch, B., see Adeva, B. ... A277 (1989) 187
Wyss, J., see Benvenuti, A.C. ... A276 (1989) 94
Wyss, J., see Cartwright, S. ... A277 (1989) 269

Xian, D.C., see Cui, M.Q. ... A277 (1989) 673
Xie, M., D.A.G. Deacon and J.M.J. Madey, The guided mode expansion in free electron lasers ... A272 (1988) 528
Xie, Y.Y., see Yin, Z.W. ... A275 (1989) 273
Xie Jialin, Zhuang Jiejia, Wang Youzhi and Zhong Shicai, Design considerations of the Beijing free electron laser project ... A272 (1988) 40
Xu, H.M., see Murakami, T. ... A275 (1989) 112
Xu, K., see Hartemann, F. ... A272 (1988) 125
Xu, S.-D., see He, H.-J. ... A272 (1988) 847
Xu, W.X., see Cui, M.Q. ... A277 (1989) 673
Xu Jianming and Xu Qing, Modulating thickness multipole permanent magnets ... A273 (1988) 63
Xu Qing, see Xu Jianming ... A273 (1988) 63

Yadav, J.S., J. Brückner and J.R. Arnold, Weak peak problem in high resolution gamma-ray spectroscopy ... A277 (1989) 591
Yagi, K., see Ninomiya, M. ... A272 (1988) 727
Yakushev, V.F., see Bari, G. ... A277 (1989) 11
Yamada, J., see Engelage, J. ... A277 (1989) 431
Yamada, R., see Abe, F. ... A271 (1988) 387
Yamada, R., see Newman-Holmes, C. ... A274 (1989) 443
Yamada, R., see Brown, C. ... A279 (1989) 331
Yamada, S., see Watanabe, S.-I. ... A271 (1988) 359
Yamaguchi, C., see Dinter, H. ... A276 (1989) 1
Yamaguchi, H., see Yanagimachi, T. ... A275 (1989) 307
Yamaguchi, S., Thermal flux perturbation of lithium-glass scintillator ... A274 (1989) 568
Yamaguchi, S., Edge effect of thin lithium-glass scintillators ... A274 (1989) 573
Yamaguchi, Y., see Chiba, M. ... A276 (1989) 122
Yamakawa, O., see Aoki, S. ... A274 (1989) 64
Yamamoto, I., see Yamashita, Y. ... A274 (1989) 584
Yamamoto, I., see Bari, G. ... A277 (1989) 11
Yamanaka, C., see Mima, K. ... A272 (1988) 106
Yamanouchi, T., see Abe, F. ... A271 (1988) 387
Yamaoka, H., see Kawai, T. ... A276 (1989) 408
Yamartino, J.M., see Benvenuti, A.C. ... A276 (1989) 94
Yamashita, A., see Abe, F. ... A271 (1988) 387
Yamashita, S., see Noguchi, S. ... A271 (1988) 404
Yamashita, T., see Sumiyoshi, T. ... A271 (1988) 432
Yamashita, T., see Homma, Y. ... A274 (1989) 183

Yamashita, Y., T. Wada, M. Tsuruda, H. Miyai, I. Yamamoto, T. Tomiyama, N. Takahashi, K. Saito and O. Saavedra, A cosmic-ray counter telescope to search for fractionally charged particles ... A274 (1989) 534
Yamato, Y., see Hayasino, T. ... A271 (1988) 518
Yamazaki, M., see Gothe, R.W. ... A276 (1989) 233
Yamazaki, T., see Kawashima, Y. ... A274 (1989) 241
Yamin, P., see D0 Calorimeter Group ... A280 (1989) 36
Yan, Y.T., Output power enhancement of ac Raman free electron lasers ... A272 (1988) 120
Yanagimachi, T., T. Doke, N. Hasebe, T. Imai, T. Kashiwagi, J. Kikuchi, T. Kohno, W.P. Liu, K. Munakata, T. Motobayashi, H. Murakami, K. Nagata, A. Nakamoto and H. Yamaguchi, New two-dimensional position sensitive silicon detector with good position linearity and resolution ... A275 (1989) 307
Yanagisawa, Y., see Aoki, S. ... A274 (1989) 64
Yang, C.G., see Adeva, B. ... A277 (1989) 187
Yang, K.S., see Chen, C. ... A272 (1988) 713
Yang, K.S., see L3 Collaboration ... A275 (1989) 71
Yang, Q.Y., see Chen, C. ... A272 (1988) 713
Yang Tianlu, see Liu Weiren ... A272 (1988) 50
Yanovsky, V. and P. Kozma, A barium fluoride scintillator working with p–p′ diphenylstilbene wavelength shifter (*Letter to the Editor*) ... A276 (1989) 659
Yariv, Y., see Sailor, W.C. ... A277 (1989) 599
Yasu, Y., see Amako, K. ... A272 (1988) 687
Yasuda, T., see Engels Jr, E. ... A279 (1989) 272
Yasuoka, K., see Abe, F. ... A271 (1988) 387
Yearworth, M., see Court, A.J. ... A273 (1988) 706
Yee, F.G., T.C. Marshall and S.P. Schlesinger, Efficiency and sideband observations of a Raman FEL oscillator with a "tapered" undulator ... A272 (1988) 162
Yee, H., see Engelage, J. ... A277 (1989) 431
Yeh, G.P., see Abe, F. ... A271 (1988) 387
Yeh, S.C., see Adeva, B. ... A277 (1989) 187
Yellin, S., see Coyle, P. ... A273 (1988) 858
Yen, S., see Abegg, R. ... A273 (1988) 43
Yeremin, A.V., A.N. Andreyev, D.D. Bogdanov, V.I. Chepigin, V.A. Gorshkov, A.I. Ivanenko, A.P. Kabachenko, L.A. Rubinskaya, E.M. Smirnova, S.V. Stepantsov, E.N. Voronkov and G.M. Ter-Akopian, The Vassilissa facility for electrostatic separation and study of complete fusion reaction products ... A274 (1989) 528
Yergin, P.F., see Gothe, R.W. ... A276 (1989) 233
Yin, L.I, J.I. Trombka and S.M. Seltzer, A pattern recognition approach in X-ray fluorescence analysis ... A277 (1989) 619
Yin, Z.W., Z.Y. Wei, D.Z. Shen and Y.Y. Xie, A new BGO crystal with higher radiation hardness ... A275 (1989) 273
Yin Yuan Zhao, see Saito, H. ... A272 (1988) 319
Yoh, J., see Abe, F. ... A271 (1988) 387
Yoneda, K., see Ikeda, Y. ... A276 (1989) 183
Yoon, T.S., see ARGUS Collaboration ... A275 (1989) 1
Yosef, C., see Engels Jr, E. ... A279 (1989) 272
Yoshida, H., see Sumiyoshi, T. ... A271 (1988) 432
Yoshida, K., see Endo, I. ... A280 (1989) 144
Yoshii, K., see Ikeda, Y. ... A276 (1989) 183
Yoshimori, M. and K. Okudaira, In-flight energy calibration for the X-ray and gamma-ray spectrometers on the solar-A satellite ... A272 (1988) 880
Yoshimura, A., New differential linearity compensation method for successive approximation analog-to-digital convertors ... A274 (1989) 536
Yoshimura, E.M., see De Lima, J.F. ... A280 (1989) 436
Yoshizawa, M., see Watanabe, S.-I. ... A271 (1988) 359
Yoshizawa, M., see Arai, S. ... A278 (1989) 236
Young, G.R., see Awes, T.C. ... A279 (1989) 479
Young, G.R., T.C. Awes, C. Baktash, R.P. Cumby, R.L. Ferguson, T.A. Gabriel, H.A. Gustafsson, H.H. Gutbrod, J.W. Johnson, I.Y. Lee, F.E. Obenshain, F. Plasil and S.P. Sorensen, The zero-degree calorimeter for the relativistic heavy-ion experiment WA80 at CERN ... A279 (1989) 503
Young, K.K., see Bartha, G.T. ... A275 (1989) 59
Younis, A.-R.S., see Watt, D.E. ... A280 (1989) 495
Younis, F., see Court, A.J. ... A273 (1988) 706
Youssef, S., see D0 Calorimeter Group ... A280 (1989) 36
Ypma, Th., see Bloch, D. ... A273 (1988) 847
Ypsilantis, T., see Arnold, R. ... A273 (1988) 466

Yu, L.-H. and S. Krinsky, Betatron oscillations in a free electron laser A272 (1988) 436
Yu, S.S., see Sharp, W.M. A272 (1988) 397
Yu, S.S., see Barnard, J.J. A272 (1988) 467
Yuan, Y.R., see Bari, G. A277 (1989) 11
Yuda, T., see Bourotte, J. A274 (1989) 129
Yun, J.C., see ARGUS Collaboration A275 (1989) 1
Yvert, M., see Beingessner, S.P. A272 (1988) 669
Yvert, M., see Aubert, B. A279 (1989) 126

Zabransky, B., see Hunt, J.E. A274 (1989) 597
Zaccone, H., see Alitti, J. A273 (1988) 135
Zaccone, H., see Ansorge, R.E. A273 (1988) 826
Zaccone, H., see Alitti, J. A279 (1989) 364
Zacek, G., see De Winter, K. A277 (1989) 83
Zacek, G., see De Winter, K. A277 (1989) 170
Zacek, G., see CHARM II Collaboration A278 (1989) 670
Zacek, V., see De Winter, K. A277 (1989) 83
Zacek, V., see De Winter, K. A277 (1989) 170
Zacek, V., see CHARM II Collaboration A278 (1989) 670
Zafiratos, C.D., see McClelland, J.B. A276 (1989) 35
Zaganidis, N., see Dominik, W. A278 (1989) 779
Zaganidis, N., see Giomataris, Y. A279 (1989) 322
Zagromski, S., see Gils, H.J. A276 (1989) 151
Zagromski, S., see Gils, H.J. A276 (1989) 169
Zaid, K., see Guinet, D. A278 (1989) 614
Zaitsev, V., see Artamonov, A. A279 (1989) 531
Zaitsev, Yu., see ARGUS Collaboration A275 (1989) 1
Żakowicz, W. and A. Błędowski, Passive laser beam guidance in periodic system of lenses with holes A272 (1988) 532
Zalewska, A., see Burns, M. A277 (1989) 154
Zalewska, A., see Dijkstra, H. A277 (1989) 160
Zallo, A., see Bari, G. A277 (1989) 11
Zandee, W., see Mels, W.A. A273 (1988) 689
Zanella, G., see Calore, M. A278 (1989) 497
Zanello, D., see De Winter, K. A277 (1989) 83
Zanello, D., see De Winter, K. A277 (1989) 170
Zanello, D., see CHARM II Collaboration A278 (1989) 670
Zanello, L., see UA1 Experiment A279 (1989) 169
Zanevsky, Yu.V., see Anisimov, Yu.S. A273 (1988) 731
Zannoni, R., see Calore, M. A278 (1989) 497
Zatsepin, G.T., see Bari, G. A277 (1989) 11
Zavadil, Z., see Anisimov, Yu.S. A273 (1988) 731
Zawistowski, T., see Artusi, G. A279 (1989) 523
Zdarko, R., see Cartwright, S. A277 (1989) 269
Zdarko, R.W., see Benvenuti, A.C. A276 (1989) 94
Zecca, A., see De Vries, J. A275 (1989) 194
Zech, G., Upper limits in experiments with background or measurement errors A277 (1989) 608
Zehnder, L., see Böhm, A. A273 (1988) 471
Zeitnitz, B., see Giorginis, G. A273 (1988) 650
Zeitnitz, C., see Braunschweig, W. A275 (1989) 246
Zeldovich, S., see Artamonov, A. A279 (1989) 531
Zetta, L., see Annunziata, M. A271 (1988) 597
Zetta, L., see Guazzoni, P. A278 (1989) 507
Zetti, F., see Abe, F. A271 (1988) 387
Zetti, F., see Apollinari, G. A277 (1989) 138
Zetti, F., see Apollinari, G. A279 (1989) 396
ZEUS Calorimeter Group, G. D'Agostini, A. Bamberger, F. Barreiro, E. Bernardi, K. Dierks, G. Drews, J. Engelen, M. Garcia, R. Klanner, U. Kötz, J. Krüger, G. Levman, D. Lüke, J. Martin, E. Ros, F. Selonke, R. Van der Stad, J. Straver and H. Tiecke, Experimental study of uranium plastic scintillator calorimeters A274 (1989) 134
ZEUS Calorimeter Group, (presented by H. Tiecke), Contribution of intrinsic and sampling fluctuations to the total hadronic energy resolution A277 (1989) 42
Zhang, S.N. and D. Ramsden, A triple phoswich detector for hard X-ray astronomy A273 (1988) 673

Zhang, S.Y., see Chen, C. A272 (1988) 713
Zhang, S.Y., see L3 Collaboration A275 (1989) 71
Zhang, T.-W., see He, H.-J. A272 (1988) 847
Zhang, W.Z., see Singy, D. A278 (1989) 349
Zhang, X.-L., see Chen, M.-B. A278 (1989) 409
Zhang Qichu, see Lu Xiting A272 (1988) 909
Zhao, C.Z., see Bari, G. A277 (1989) 11
Zheng Xiao-Ming, see Zhu Guo-Sheng A276 (1989) 280
Zheng Zhongshuang, see Lu Xiting A272 (1988) 909
Zhigunov, V.P., T.B. Kostkina and A.A. Spiridonov, On estimating distributions with the maximum entropy principle A273 (1988) 362
Zhilich, V.N., see Blinov, A.E. A273 (1988) 31
Zhong Shicai, see Xie Jialin A272 (1988) 40
Zhou, R.-F., see Chen, M.-B. A278 (1989) 409
Zhou Yue-Hua, see Zhu Guo-Sheng A276 (1989) 280
Zhu Guo-Sheng, Lu Chang-Guo, Zhou Yue-Hua and Zheng Xiao-Ming, Ageing effects in SQS tubes A276 (1989) 280
Zhu, F., see Murakami, T. A275 (1989) 112
Zhu, Q., see Bari, G. A277 (1989) 11
Zhu, R., see Ma, H. A274 (1989) 113
Zhuang, H.L., see Chen, C. A272 (1988) 713
Zhuang, H.L., see L3 Collaboration A275 (1989) 71
Zhuang Jiejia, see Xie Jialin A272 (1988) 40
Zichichi, A., see Bari, G. A277 (1989) 11
Zichichi, A., see Desalvo, R. A279 (1989) 467
Ziegler, N.F., see Jones, C.M. A276 (1989) 413
Zielinski, M., see Engels Jr, E. A279 (1989) 272
Ziemann, V., Transfer matrices and synchrotron integrals for arbitrary dipole fields A272 (1988) 432
Zieminski, A., see D0 Calorimeter Group A280 (1989) 36
Zimin, N.I., see Filatova, N.A. A272 (1988) 707
Zimin, N.I., see Filatova, N.A. A279 (1989) 518
Zimmermann, W., see Bürger, J. A279 (1989) 217
Zinchenko, A.I., see Filatova, N.A. A272 (1988) 707
Zinchenko, A.I., see Filatova, N.A. A279 (1989) 518
Zinoviev, S.V., see Alimov, A.S. A278 (1989) 379
Ziock, K.-P., see Hailey, C.J. A276 (1989) 340
Zioutas, K., see Gundel, H. A280 (1989) 1
Zironi, E.P., see Andrade, E. A273 (1988) 16
Zito, G., see Albrizio, R. A271 (1988) 449
Zito, G., see WA76 Collaboration A274 (1989) 165
Zitoun, R., see WA76 Collaboration A274 (1989) 165
Zlokazov, V.B., On optimum binning for spectral distributions A275 (1989) 392
Zoiţa, V., see Vlad, M. A274 (1989) 613
Zöller, P., see Heeg, P. A278 (1989) 452
Zorn, C., M. Bowen, S. Majewski, J. Walker, R. Wojcik, C. Hurlbut and W. Moser, A new polyvinyltoluene-based, radiation-resistant plastic scintillator (*Letter to the Editor*) A271 (1988) 701
Zorn, C., M. Bowen, S. Majewski, J. Walker, R. Wojcik, C. Hurlbut and W. Moser, Pilot study of new radiation-resistant plastic scintillators doped with 3-hydroxyflavone A273 (1988) 108
Zorn, C., M. Bowen, S. Majewski, J. Walker, R. Wojcik, C. Hurlbut and W. Moser, A pilot study of the radiation resistance of selected plastic scintillators A276 (1989) 58
Zorn, C., see Bowen, M. A276 (1989) 391
Zorn, G.T., see Artusi, G. A279 (1989) 523
Zorro, R., see Håkansson, A. A273 (1988) 211
Zoutendijk, A., see Okx, W.J.C. A273 (1988) 544
Zrelov, V.P., see Budyashova, S.Yu. A277 (1989) 304
Zulehner, W., see Schneider, J.R. A276 (1989) 636
Zumerle, G., see Checchia, P. A275 (1989) 49
Zumerle, G., see Burns, M. A277 (1989) 154
Zumerle, G., see Dijkstra, H. A277 (1989) 160
Zumerle, G., see DELPHI Forward ElectroMagnetic Group A279 (1989) 473
Župančić, M., see Aničin, I.V. A271 (1988) 264
Zylberstejn, A., see Ducros, Y. A277 (1989) 401
Zylberstejn, A., see Detœuf, J.F. A279 (1989) 310

SUBJECT INDEX TO VOLUMES A271–A280

Accelerators, Beam Handling and Targets

Polarization measurement of atomic hydrogen beam spin-exchanged with optically oriented sodium atoms, Ueno, A., K. Ogura, Y. Wakuta, I. Kumabe, K. O-Ohata, Y. Mori and S. Fukumoto A271 (1988) 343
A fast Poisson integrator for magnetic field calculations in cyclotrons, Ostojić, R. A271 (1988) 354
Beam stacking experiments at the ion accumulation ring TARN, Watanabe, S.-I., A. Noda, M. Takanaka, N. Tokuda, S. Yamada, M. Yoshizawa, T. Hattori, T. Katayama and Y. Hirao A271 (1988) 359
Thin ribbons as internal targets in storage rings, Koch, H.R., G. Riepe, A. Hamacher, J. Pfeiffer, O.W.B. Schult, A. Nakach, M. Olivier, A. Dewald and P. Von Brentano A271 (1988) 375
A positron source produced by a tandem Van de Graaff accelerator for use in a relativistic energy spectrometer designed for symmetrical mass systems, Von Wimmersperg, U., S.H. Connell, R.F.A. Hoernle, E. Sideras-Haddad and J.P.F. Sellschop A271 (1988) 383
Acceleration of the polarized proton beam at the KEK 12 GeV PS, Sato, H., D. Arakawa, S. Hiramatsu, Y. Mori, K. Ikegami, A. Takagi, T. Toyama, A. Ueno and K. Imai A272 (1988) 617
The slow positron source at the Giessen 65 MeV linac, Ebel, F., W. Faust, C. Hahn, S. Langer, M. Rückert, H. Schneider, A. Singe and I. Tobehn A272 (1988) 626
Calcul numérique des trajectoires ioniques dans une source de type Nier utilisant un jet atomique transversal. Etude du rendement et correction de la discrimination, Ridon, J., J.P. Ravon and J. Borzeix A272 (1988) 629
Electronic recombination in a nonequilibrium plasma. Application to electronic cooling of heavy ion beams, Vogel, J. and C. Toepffer A272 (1988) 639
Energy dependence of the $\nu_r + 2\nu_z = 3$ coupling resonance limit in a superconducting cyclotron, Mallory, M.L. and P. Miller A272 (1988) 645
Details of a water target used in a high-current application for a neutrino-physics experiment and the direct measurement of the incident proton beam by the induced change in the water conductivity, Dombeck, T., A. Finch and D.L. Grisham A272 (1988) 650
Ionization of a polarized hydrogen atomic beam in an ECR discharge (*Letter to the Editor*), Friedrich, L., E. Huttel and P.A. Schmelzbach A272 (1988) 906
Proposal for a variable energy RFQ, Fabris, A. and A. Massarotti A273 (1988) 1
Further evaluation of the high intensity plasma sputter heavy negative ion source, Mori, Y., G.D. Alton, A. Takagi, A. Ueno and S. Fukumoto A273 (1988) 5
An adjustable monochromatic beta source, Ray, R. and J.L. Rosen A273 (1988) 13
A method for measuring the high voltage of a low energy Van de Graaff accelerator, Andrade, E. and E.P. Zironi A273 (1988) 16
Variation of the synchronous phase in a multichannel accelerator for light ions, Wojke, R.G.C., F. Siebenlist, A.E. Van Putten, P.W. Van Amersfoort, H. Klein, A. Schempp, R.W. Thomae and T. Weis A273 (1988) 21
Luminosity measurement with the MD-1 detector at VEPP-4, Blinov, A.E., A.E. Bondar, A.D. Bukin, S.G. Klimenko, G.M. Kolachev, A.P. Onuchin, A.G. Shamov, V.I. Telnov, Yu.A. Tikhonov and V.N. Zhilich ... A273 (1988) 31
A temperature- and humidity-stabilized beam bunch phase detector, Connolly, R.C. and D.D. Leach A273 (1988) 40
Longitudinally polarized proton beams at TRIUMF, Abegg, R., G.S. Clark, M.K. Craddock, W. Felske, T. Gathright, A. Otter, P. Reeve, R. Schubank, G.M. Stinson and S. Yen A273 (1988) 43
Deuteron polarimetry studies at low and intermediate energies, Arvieux, J., S.D. Baker, A. Boudard, J. Cameron, T. Hasegawa, D. Hutcheon, C. Kerboul, G. Gaillard and Nguyen Van Sen A273 (1988) 48
A high speed electrostatic kicker for the pulse stretcher ring at Saskatchewan Accelerator Laboratory, Figley, C.B. A273 (1988) 59
Modulating thickness multipole permanent magnets, Xu Jianming and Xu Qing A273 (1988) 63
On the use of multiple-slot multiple disk chopper assemblies to pulse thermal neutron beams, Copley, J.R.D. .. A273 (1988) 67
A technique for computing the first order focusing properties of an arbitrary static electric field, Winchester, T.A. and R.L. Dalglish A273 (1988) 77
Properties of centered accelerated equilibrium orbits, Milinković, Lj.S., K.M. Subotić and E. Fabrici A273 (1988) 87
Precision measurement of target position during irradiation (*Letter to the Editor*), Jaskóła, M., P. Egelhof, R. Henneck, H. Mühry, I. Sick and D. Vetterli A273 (1988) 441

0168-9002/89/$03.50 © Elsevier Science Publishers B.V.
(North-Holland Physics Publishing Division)

First results for positron accumulation at the Giessen linac, Ebel, F., W. Faust, H. Schneider and I. Tobehn ... A274 (1989) 1
The polarized heavy ion source at the NSF in Daresbury, Karban, O., W.C. Hardy, K.A. Connell, S.E. Darden, C.O. Blyth, H.D. Choi, S.J. Hall, S. Roman and G. Tungate ... A274 (1989) 4
A fundamental limit to the polarized current density produced by the Lamb-shift polarized ion source, Benage Jr, J.F., R.R. Stevens Jr and R.A. Stern ... A274 (1989) 13
Colliding a linear electron beam with a storage ring beam, Grosse-Wiesmann, P. ... A274 (1989) 21
First order optical matching in the final focus section of the SLAC linear collider, Hawkes, C.M. and P.S. Bambade ... A274 (1989) 27
A high resolution wire scanner for micron-size profile measurements at the SLC, Fulton, R., J. Haggerty, R. Jared, R. Jones, J. Kadyk, C. Field, W. Kozanecki and W. Koska ... A274 (1989) 37
Adjustable multipole elements, Antl, M. and H. Wollnik ... A274 (1989) 45
Design and operation of a multipacting-free 51.4 MHz rf accelerating cavity, Boni, R., V. Chimenti, B. Spataro, F. Tazzioli, P. Fernandes and R. Parodi ... A274 (1989) 49
A polarized ^{3}He target for nuclear physics, Milner, R.G., R.D. McKeown and C.E. Woodward ... A274 (1989) 56
Lumped correction of the multipole content in large synchrotrons (*Letter to the Editor*), Neuffer, D. ... A274 (1989) 400
New methods of enhancing ion beam intensities from two types of sputter negative ion sources, Du Guangtian ... A274 (1989) 415
Absolute energy calibration of a low-energy accelerator by the time-of-flight technique, Neldner, K., H.W. Becker, S. Engstler, M. Köster, C. Rolfs, U. Schröder, W.H. Schulte, H.P. Trautvetter and K. Brand ... A274 (1989) 419
Foil activation measurements of energy and flux of neutrons from D–T mixed beams driven into a target, Kim, J. ... A274 (1989) 425
Optimization of collimating slit sizes to maximize beam transmission, Sarma, P.R., V.S. Pandit and R.K. Bhandari ... A274 (1989) 431
On the deceleration of ions in a magnetized electron stream, Pestrikov, D.V. ... A274 (1989) 435
A rugged sliding vacuum seal for angular motion over a limited range, Feldl, E.J., J.T. O'Brien, L.W. Fagg, H. Crannell and D.I. Sober ... A274 (1989) 439
MeV polyatomic ion beams from a dynamitron accelerator for desorption mass spectrometry studies (*Letter to the Editor*), Hunt, J.E., M. Salehpour, A. Ruthenberg, B. Zabransky, R. Amrein, Z. Vager, E. Kanter and D.L. Fishel ... A274 (1989) 597
A method for the energy calibration of heavy-ion beams (*Letter to the Editor*), McGlone, V.A. ... A274 (1989) 601
Gas jet density profile measured by electron scattering (*Letter to the Editor*), Sperisen, F., A. Berdoz, H.-O. Meyer, R.S. Barbieri and R.A. Bonham ... A274 (1989) 604
Rf and space-charge effects in laser-driven rf electron guns, Kim, K.-J. ... A275 (1989) 201
Semiclassical spin diffusion model compared to quantum calculation of depolarization in electron storage rings, Buon, J. ... A275 (1989) 219
Spin-matching conditions for 90° spin rotators which incorporate quadrupoles, Buon, J. ... A275 (1989) 226
Broadband spin inversion of cold and thermal neutrons by improved radio frequency gradient flippers, Weinfurter, H. and G. Badurek ... A275 (1989) 233
Monte Carlo simulations of thin internal targets in intermediate energy proton storage rings, Hinterberger, F., T. Mayer-Kuckuk and D. Prasuhn ... A275 (1989) 239
The influence of convection on high-pressure gas target densities (*Letter to the Editor*), Köble, T., F. Meyer, M. Ockenfels, J. Weltz, W. Von Witsch and G. Wollmann ... A275 (1989) 460
Shielding of proton accelerators: a comparison between the Moyer model and Monte Carlo calculations, Dinter, H., K. Tesch and C. Yamaguchi ... A276 (1989) 1
Studies and calculations of transverse emittance growth in proton storage rings, Mane, S.R. and G. Jackson ... A276 (1989) 8
Optimization of the parameters of an ion beam buncher, Pandit, V.S., P.R. Sarma and R.K. Bhandari ... A276 (1989) 21
Estimation and display of beam density profiles, Dasgupta, S., T. Mukhopadhyay, A. Roy and C. Mallik ... A276 (1989) 25
Measurement of ^{3}He depolarization rates during bombardment with a ^{4}He beam, Coulter, K.P., A.B. McDonald, G.D. Cates, W. Happer and T.E. Chupp ... A276 (1989) 29
Longitudinal linac beam focusing for neutron time-of-flight measurements, McClelland, J.B., D.A. Clark, J.L. Davis, R.C. Haight, R.W. Johnson, N.S.P. King, G.L. Morgan, L.J. Rybarcyk, J. Ullmann, P. Lisowski, W.R. Smythe, D.A. Lind, C.D. Zafiratos and J. Rapaport ... A276 (1989) 35
A technique for generating atomic negative ion beams of the group IA elements (*Letter to the Editor*), Alton, G.D. and G.D. Mills ... A276 (1989) 388
Low cost pulsed neutron source and instrumentation, Cilloco, F., R. Felici, A. Ippoliti and F. Sacchetti ... A276 (1989) 401
Self-regulating characteristics of a cold neutron source with a closed-thermosiphon, Kawai, T., M. Utsuro, Y. Maeda, T. Ebisawa, T. Akiyoshi, H. Yamaoka and S. Okamoto ... A276 (1989) 408
Improved voltage performance of the Oak Ridge 25URC tandem accelerator, Jones, C.M., D.L. Haynes, R.C. Juras, M.J. Meigs, N.F. Ziegler, J.E. Raatz and R.D. Rathmell ... A276 (1989) 413
The effects of the beam centering using a first harmonic magnetic field component, Milinkovic, Lj.S., E. Fabrici and K.M. Subotic ... A276 (1989) 418
A final focus system for flat-beam linear colliders, Oide, K. ... A276 (1989) 427

Simultaneous transport of N^+ and N_2^+ ions through a periodic focusing quadrupole channel, Urbanus, W.H., R.G.C. Wojke, R.J.J.M. Steenvoorden, J.G. Bannenberg, H. Klein, A. Schempp, R.W. Thomae, T. Weis and P.W. Van Amersfoort . . . A276 (1989) 433
X-ray measurements at the stand-alone electron cooler for LEAR, Schuch, R., H. Poth and A. Wolf . . . A276 (1989) 445
A honeycomb sandwich structure vacuum jacket for cryogenic targets, Harada, M., S. Kasai, S. Kato, T. Kitami, T. Maki, K. Maruyama, Y. Murata, K. Niki, C. Rangacharyulu and A. Sasaki . . . A276 (1989) 451
A convenient technique to make uniform polyethylene foils (*Letter to the Editor*), Islam, M.S., P.B. Corn, R.N. Boyd, K.E. Sale and G.J. Mathews . . . A276 (1989) 647
A multiple target gas-jet system for light-ion bombardments of heavy targets (*Letter to the Editor*), Hall, H.L., M.J. Nurmia and D.C. Hoffman . . . A276 (1989) 649
A high intensity Nielson ion source for multicharged ions, Mingxiu, M., J.E. Mynard and K.G. Stephens . . . A277 (1989) 279
Heavy-ion postaccelerator at the University of Tsukuba, Furuno, K., T. Komatsubara and T. Kimura . . . A277 (1989) 286
A monitor for gamma radiation at zero degrees from the SLC collision point, Bonvicini, G., R. Frey, E. Gero, W. Koska, C. Field and A. Minten . . . A277 (1989) 297
The Cherenkov method of simultaneous determination of the mean energy and direction of a 650 MeV proton beam, Budyashova, S.Yu., V.P. Zrelov and E.S. Kuzmin . . . A277 (1989) 304
Measurements of emittances and momentum spectra of a 20 MeV electron linac beam, Nakanishi, T. . . . A277 (1989) 313
Dynamic polarization of ^{19}F in a fluorinated alcohol, Hill, D., T. Kasprzyk, J.J. Jarmer, S. Penttilä, M. Krumpolc, G.W. Hoffmann and M. Purcell . . . A277 (1989) 319
A cryogenic tritium target system for nuclear physics experiments, Beck, D., G. Retzlaff, W. Turchinetz, K.I. Blomqvist, P. Demos, G. Dodson, K. Dow, J. Dzengeleski, J. Flanz, G. Karageorge, F. Masse, T. Russ, C. Russo, W. Sapp, C.P. Sargent, C. Williamson, R. Goloskie, M. Farkhondeh and R. Whitney . . . A277 (1989) 323
The Bates polarized electron source, Cates, G.D., V.W. Hughes, R. Michaels, H.R. Schaefer, T.J. Gay, M.S. Lubell, R. Wilson, G.W. Dodson, K.A. Dow, S.B. Kowalski, K. Isakovich, K.S. Kumar, M.E. Schulze, P.A. Souder and D.H. Kim . . . A278 (1989) 293
Tailoring of the rf properties of a multichannel accelerator for MeV energies, Wojke, R.G.C., W.H. Urbanus, R.J.J.M. Steenvoorden, J.G. Bannenberg, H. Klein, A. Schempp, R.W. Thomae, T. Weis and P.W. Van Amersfoort . . . A278 (1989) 318
A study of the influence of heat treatment on field emission in superconducting rf cavities, Shu, Q.S., W. Hartung, J. Kirchgessner, D. Moffat, H. Padamsee, D.L. Rubin and J. Sears . . . A278 (1989) 329
Reduction of the X-ray level of dc ion accelerators, Urbanus, W.H., J.G. Bannenberg, F.W. Saris, R. Koudijs, P. Dubbelman and W. Koelewijn . . . A278 (1989) 339
Production of intense polarized hydrogen atomic beams by cooling the atoms to low temperature, Singy, D., P.A. Schmelzbach, W. Grüebler and W.Z. Zhang . . . A278 (1989) 349
Deceleration in an anticyclotron as a means of producing very low energy antiprotons, Eades, J. and L.M. Simons . . . A278 (1989) 368
A beam of thermal ^8Li atoms, Luck, W.S., D. Fick and H.J. Jänsch . . . A278 (1989) 375
Beam emittance forming line of the cw race-track microtron of the Institute of Nuclear Physics of Moscow State University (INP MSU), Alimov, A.S., V.G. Gevorkyan, Yu.I. Gorbatov, I.V. Gribov, A.Kh. Ibadov, B.S. Ishkhanov, V.A. Korneenkov, E.V. Lazutin, E.A. Makulbekov, I.M. Piskarev, K.Yu. Platov, A.B. Savitsky, A.V. Shumakov, V.I. Shvedunov, V.M. Sorvin, A.V. Tiunov, V.A. Ushkanov and S.V. Zinoviev . . . A278 (1989) 379
Ion trapping in a superconducting circular electron storage ring, Gomei, Y., K. Nakayama, K. Fukushima and S. Sukenobu . . . A278 (1989) 389
Shaping solenoid fields to reduce emittance degradation of polarized H^- ion beams, Hayden, R.J. and M.J. Jakobson . . . A278 (1989) 394
The neutron transmission of single crystal MgO filters, Carpenter, J.M., D.F.R. Mildner, S.S. Cudrnak and R.O. Hilleke . . . A278 (1989) 397
Design criteria on a minicyclotron as a mass spectrometer for dating, Chen, M.-B., W.-Z. Gao and D.-M. Li . . . A278 (1989) 402
Adopting a non-sinusoidal wave dee voltage in minicyclotrons as mass spectrometers for dating, Chen, M.-B., D.-M. Li, W.-Z. Gao, X.-L. Zhang and R.-F. Zhou . . . A278 (1989) 409
Dc beam operation of the cusp negative heavy ion source (*Letter to the Editor*), Mori, Y., A. Takagi, A. Ueno, K. Ikegami and S. Fukumoto . . . A278 (1989) 605
The problem of painting in the injection into circular accelerators: a general analytical approach, Leo, M., R.A. Leo, G. Mancarella, G. Soliani and M. Pusterla . . . A278 (1989) 629
High current metal ion beam transport in the UNILAC injector at GSI, Spädtke, P., H. Emig, J. Klabunde, D.M. Rück, B.H. Wolf and I.G. Brown . . . A278 (1989) 643
Operation of the Munich laser ion source in a Van de Graaff, Sellmair, J. and G. Korschinek . . . A278 (1989) 651
Rf cavity design and performance for the TUNL polarized ion source, Robinson, H.G., W.M. Hooke, H.W. Lewis, K.C. Felder and T.B. Clegg . . . A278 (1989) 655
Residual gas beam profile monitor, Krider, J. . . . A278 (1989) 660
Retractable carbon fibre targets for measuring beam profiles at the SLC collision point, Bowden, G., D. Burke, C. Field and W. Koska . . . A278 (1989) 664

High quantum yield from photofield emitters, Boussoukaya, M., H. Bergeret, R. Chehab, B. Leblond and J. Le Duff A279 (1989) 405
Precision determination of the magnetic field in a muon storage ring using the cyclotron frequency of heavy ions – A technique for use in a new measurement of the muon g-2 value, May, M. A279 (1989) 410
Analysis of internal target effects in light ion storage rings, Hinterberger, F. and D. Prasuhn A279 (1989) 413
Klystron modulator for the KEK 2.5 GeV linac, Shidara, T., S. Anami, S. Fukuda, Y. Saito, H. Honma, J. Tanaka, G. Horikoshi and A. Abchiche A279 (1989) 423
Simulations of high-brightness rf photocathode guns for LLNL–SLAC–LBL 1 GeV test experiment, Chen, Y.-J. A279 (1989) 433
A Coulomb polarimeter for polarized heavy-ion beams, Völk, H.-G., H. Leucker, K. Becker, K. Blatt, W. Korsch, W. Luck, H. Reich, G. Tungate, D. Fick, R. Butsch, H.J. Jänsch, E. Steffens and A. Weller A279 (1989) 443
Improvements in targetry and high voltage stability for high resolution ion beam experiments, Wüstenbecker, S., H. Ebbing, W.H. Schulte, H. Baumeister, H.W. Becker, B. Cleff, C. Rolfs, H.P. Trautvetter, G.E. Mitchell, J.S. Schweitzer and C.A. Peterson A279 (1989) 448
Fast polarization changes in ferroelectrics and their application in accelerators, Gundel, H., H. Riege, E.J.N. Wilson, J. Handerek and K. Zioutas A280 (1989) 1
Possibility of obtaining high energy polarized proton/antiproton beams from $\Sigma^+\widehat{\Sigma^+}$-hyperon decays, Frolov, A.M., V.A. Maisheev and R.A. Rzaev A280 (1989) 7
A new highly efficient selective laser ion source (*Letter to the Editor*), Alkhazov, G.D., E.Ye. Berlovich and V.N. Panteleyev A280 (1989) 141

Instruments and Methods for High Energy Physics

The CDF detector: An overview, Abe, F., D. Amidei, G. Apollinari, G. Ascoli, M. Atac, P. Auchincloss, A.R. Baden, A. Barbaro-Galtieri, V.E. Barnes, E. Barsotti, F. Bedeschi, S. Belforte, G. Bellettini, J. Bellinger, J. Bensinger, A. Beretvas, P. Bergé, S. Bertolucci, S. Bhadra, M. Binkley, R. Blair, C. Blocker, J. Bofill, A.W. Booth, G. Brandenburg, A. Brenner, D. Brown, A. Byon, K.L. Byrum, M. Campbell, R. Carey, W. Carithers, D. Carlsmith, J.T. Carroll, R. Cashmore, F. Cervelli, K. Chadwick, T. Chapin, G. Chiarelli, W. Chinowsky, S. Cihangir, D. Cline, D. Connor, M. Contreras, J. Cooper, M. Cordelli, M. Curatolo, C. Day, R. Delfabbro, M. Dell'Orso, L. Demortier, T. Devlin, D. Dibitonto, R. Diebold, F. Dittus, A. Divirgilio, R. Downing, G. Drake, T. Droege, M. Eaton, J.E. Elias, R. Ely, S. Errede, B. Esposito, A. Feldman, B. Flaugher, E. Focardi, G.W. Foster, M. Franklin, J. Freeman, H. Frisch, Y. Fukui, S. Galeotti, I. Gaines, A.F. Garfinkel, P. Giannetti, N. Giokaris, P. Giromini, L. Gladney, M. Gold, K. Goulianos, J. Grimson, C. Grosso-Pilcher, C. Haber, S.R. Hahn, R. Handler, D. Hanssen, R.M. Harris, J. Hauser, Y. Hayashide, T. Hessing, R. Hollebeek, L. Holloway, P. Hu, B. Hubbard, P. Hurst, J. Huth, M. Ito, J. Jaske, H. Jensen, R.P. Johnson, U. Joshi, R.W. Kadel, T. Kamon, S. Kanda, I. Karliner, H. Kautzky, K. Kazlauskis, E. Kearns, R. Kephart, P. Kesten, H. Keutelian, Y. Kikuchi, S. Kim, L. Kirsch, S. Kobayashi, K. Kondo, U. Kruse, S.E. Kuhlmann, A.T. Laasanen, W. Li, T. Liss, N. Lockyer, F. Marchetto, R. Markeloff, L.A. Markosky, M. Masuzawa, P. McIntyre, A. Menzione, T. Meyer, S. Mikamo, M. Miller, T. Mimashi, S. Miscetti, M. Mishina, S. Miyashita, H. Miyata, N. Mondal, S. Mori, Y. Morita, A. Mukherjee, A. Murakami, Y. Muraki, C. Nelson, C. Newman-Holmes, L. Nodulman, J. O'Meara, G. Ott, T. Ozaki, S. Palanque, R. Paoletti, A. Para, D. Pazzuello, J. Patrick, R. Perchonok, T.J. Phillips, H. Piekarz, R. Plunkett, L. Pondrom, J. Proudfoot, G. Punzi, D. Quarrie, K. Ragan, G. Redlinger, R. Rezmer, J. Rhoades, L. Ristori, T. Rohaly, A. Roodman, H. Sanders, A. Sansoni, R. Sard, V. Scarpine, P. Schlabach, E.E. Schmidt, P. Schoessow, M.H. Schub, R. Schwitters, A. Scribano, S. Segler, M. Sekiguchi, P. Sestini, M. Shapiro, M. Sheaff, M. Shibata, M. Shochet, J. Siegrist, V. Simaitis, J.K. Simmons, P. Sinervo, M. Sivertz, J. Skarha, D.A. Smith, R. Snider, L. Spencer, R. St. Denis, A. Stefanini, Y. Takaiwa, K. Takikawa, S. Tarem, D. Theriot, J. Ting, A. Tollestrup, G. Tonelli, W. Trischuk, Y. Tsay, K. Turner, F. Ukegawa, D. Underwood, C. Van Ingen, R. Van Berg, R. Vidal, R.G. Wagner, R.L. Wagner, J. Walsh, T. Watts, R. Webb, T. Westhusing, S. White, V. White, A. Wicklund, H.H. Williams, T. Winch, R. Yamada, T. Yamanouchi, A. Yamashita, K. Yasuoka, G.P. Yeh, J. Yoh and F. Zetti A271 (1988) 387
The TOPAZ luminosity monitor at KEK, Noguchi, S., H. Hayashii, N. Fujiwara, S. Yamashita, N. Iida, N. Nishiwaki and Y. Watanabe A271 (1988) 404
Charge division in a small proportional chamber constructed with aluminized mylar tubes, Biino, C., R. Mussa, S. Palestini, N. Pastrone and L. Pesando A271 (1988) 417
A parallel-plate avalanche chamber with a gated drift-chamber readout, Solomey, N., W. Dominik and J.-C. Santiard A271 (1988) 423
Performance of the VENUS lead-glass calorimeter at TRISTAN, Sumiyoshi, T., K. Hayashi, K. Ogawa, F. Takasaki, J. Haba, T. Kamitani, N. Kanematsu, H. Osabe, S. Sugimoto, T. Yamashita, M. Sakano, H. Yoshida and K. Shino A271 (1988) 432
Parameter studies with the electromagnetic shower code EGS4 for the electron response of a thin layer sampling calorimeter containing uranium, Job, P.K., G. Sterzenbach and D. Filges A271 (1988) 442

Monte Carlo simulation of the ALEPH hadron prototype calorimeter, Albrizio, R., R. Baldini, G. Bagliesi, G. Batignani, G. Bencivenni, G. Bologna, F. Bossi, U. Bottigli, C. Bradaschia, P. Campana, G. Capon, M.G. Catanesi, V. Chiarella, G. De Ninno, M. De Palma, B. D'Ettorre Piazzoli, M. Dreucci, G. Felici, L. Foa, F. Forti, A. Giassi, M.A. Giorgi, G. Iaselli, P. Laurelli, G. Maggi, G.P. Mannocchi, A. Messineo, G.P. Murtas, S. Natali, S. Nuzzo, P. Picchi, A. Ranieri, G. Raso, F. Romano, F. Ruggieri, S. Scapellato, G. Selvaggi, L. Silvestris, R. Tenchini, G. Triggiani and G. Zito A271 (1988) 449
Three-dimensional parametrization of photon-initiated high energy showers, De Angelis, A. A271 (1988) 455
Estimation of the electron lifetime in tetramethylsilane, Lopes, M.I., K. Masuda and T. Doke A271 (1988) 464
A new polyvinyltoluene-based, radiation-resistant plastic scintillator (*Letter to the Editor*), Zorn, C., M. Bowen, S. Majewski, J. Walker, R. Wojcik, C. Hurlbut and W. Moser A271 (1988) 701
The E802 aerogel Cherenkov detector, Vincent, P., R. Debbe, A. Pfoh and M. Abreu A272 (1988) 660
Influence of chemical trace additives on the future ageing of the UA1 central detector, Beingessner, S.P., T.C. Meyer and M. Yvert A272 (1988) 669
Data acquisition system for the VENUS detector at TRISTAN, Amako, K., Y. Arai, H. Sakamoto, Y. Teramoto, S. Uehara, Y. Yasu, Y. Chiba, I. Endo, I. Hayashibara, T. Ohsugi and R. Tanaka A272 (1988) 687
Performance of a scintillating glass calorimeter for electromagnetic showers, Buchner, U., J.P. Donker, B. Spaan, J. Spengler, G. Schweda, D. Wegener and W. Schmidt-Parzefall A272 (1988) 695
Investigations of the characteristics of the DELPHI hadron calorimeter prototype, Filatova, N.A., V.M. Golovatyuk, R.B. Kadyrov, V.N. Pozdnyakov, V.N. Ryzhov, A.B. Sadovsky, M.D. Shafranov, Tz. Spassov, V.G. Timofeev, E.N. Tsyganov, I.A. Tyapkin, A.S. Vodopianov, N.I. Zimin, A.I. Zinchenko, G.A. Akopdjanov, G.I. Sorokin, K.G. Denisenko, Z. Guzik and J. Wojtkowska A272 (1988) 707
The performance of an L3 hadron calorimeter prototype module with BGO, Chen, C., H.S. Chen, X.G. Li, Y.S. Lu, Y.F. Mao, X.W. Tang, K.L. Tung, C.N. Wang, K.S. Yang, Q.Y. Yang, H.L. Zhuang, H. Hofer, P. Lecomte, P. LeCoultre, Yu. Gorodkov, V. Kutsenko, V. Plyaskin, E. Shumilov, V. Tchudakov, W. Böhlen, H.T. Li, B. Spiess, J. Ulbricht, S.Y. Zhang, T. Azemoon, R.C. Ball, S. Goldfarb, L.W. Jones, G.B. Mills and B.P. Roe A272 (1988) 713
Electron–pion discrimination in an iron/streamer tube calorimeter up to 100 GeV, Baumgart, R., C. Grupen, H.-J. Meyer and U. Schäfer A272 (1988) 722
A small-sized MWPC with 1 mm wire spacing as a beam/target chamber for nuclear experiments, Ninomiya, M., I. Arai, A. Manabe, H. Nunokawa, M. Tanaka, K. Tomizawa, K. Yagi, T. Kobayashi, J. Chiba, K. Nakai, H. Sano, S. Sasaki, T. Nagae, K. Tokushuku and M. Sekimoto A272 (1988) 727
Secondary particle identification using the relativistic rise in ionization, Toothacker, W.S., S. Trumpinski, J. Whitmore, R.A. Lewis, J. Gress, R. Ammar, D. Coppage, R. Davis, S. Kanekal, N. Kwak, P.A. Elcombe, J.C. Hill, W.W. Neale, W. Kowald, W.J. Robertson, W.D. Walker, P. Lucas, L. Voyvodic, J.M. Bishop, N.N. Biswas, N.M. Cason, V.P. Kenney, M.C.K. Mattingly, R.C. Ruchti, W.D. Shephard and S.J.Y. Ting A273 (1988) 97
Pilot study of new radiation-resistant plastic scintillators doped with 3-hydroxyflavone, Zorn, C., M. Bowen, S. Majewski, J. Walker, R. Wojcik, C. Hurlbut and W. Moser A273 (1988) 108
Performance of 3 m fiber optic light guides, Gagliardi, C.A., R.E. Tribble, L.A. Van Ausdeln, W.B. Cade, D.B. Debrecht and D.C. Debrecht A273 (1988) 117
The structure of lateral electromagnetic shower development in Si/W and Si/U calorimeters, Ferri, G., F. Groppi, F. Lemeilleur, S. Pensotti, P.G. Rancoita, A. Seidman and L. Vismara A273 (1988) 123
Hydrogenated amorphous silicon pixel detectors for minimum ionizing particles, Perez-Mendez, V., S.N. Kaplan, G. Cho, I. Fujieda, S. Qureshi, W. Ward and R.A. Street A273 (1988) 127
The design and construction of a scintillating fiber tracking detector, Aliti, J., A. Baracat, P. Bareyre, P. Bonamy, M. Bourdinaud, J.A. Crittenden, J-P. Meyer, P. Perrin, A. Stirling, J-C. Thevenin and H. Zaccone . A273 (1988) 135
Investigation of prototype gas-filled photomultipliers, Edmends, J.S., D.J. Miller and F. Barlow A273 (1988) 145
Tests of small proportional tubes with CF_4–HRS gas mixtures, Thun, R. A273 (1988) 157
Some results on the ageing of wire chambers with dimethyl ether, Jibaly, M., P. Chrusch Jr, G. Hilgenberg, S. Majewski, R. Wojcik, R. Weintraub and F. Sauli A273 (1988) 161
A video readout system to measure events detected in a self-shunted streamer chamber, Bacchetta, N., A. Cavestro, G. Pasquali, L. Peruzzo, G. Sartori and M. Vascon A273 (1988) 172
A large, high-speed memory buffer for high energy physics data, Plaag, R.E. and J.P. Rutherfoord A273 (1988) 177
A hybrid experiment to search for beauty particles, Aoki, S., R. Arnold, G. Baroni, M. Barth, J.H. Bartley, D. Bertrand, G. Bertrand-Coremans, V. Bisi, A.C. Breslin, G. Carboni, M.G. Catanesi, A.M. Cecchetti, E. Chesi, K. Chiba, M. Coupland, D.H. Davis, S. Dell'Uomo, M. De Vincenzi, S. Di Liberto, W. Donnelly, B.G. Duff, M.J. Esten, A. Frenkel, D. Gamba, C. Gerke, P. Giubellino, M. Hazama, F.F. Heymann, K. Hoshino, D.C. Imrie, Y. Isokane, T. Kaway, M. Kazuno, M. Kobayashi, K. Kodama, G.J. Lush, Y. Maeda, A. Manfredini, G. Marini, G. Martellotti, A. Marzari-Chiesa, M.A. Mazzoni, F. Meddi, F. Minakawa, M. Miyanishi, A. Montwill, M.T. Muciaccia, P. Musset, M. Nakamura, Y. Nakamura, K. Nakazawa, S. Natali, A. Nigro, K. Niu, K. Niwa, S. Nuzzo, M. Ohashi, G. Penso, P. Pistilli, F. Piuz, G. Poulard, L. Ramello, L. Riccati, G. Romano, R. Roosen, G. Rosa, F. Ruggieri, H. Sasaki, Y. Sato, A. Sciubba, C. Sgarbi, H. Shibuya, S. Simone, H.I. Sletten, H. Tajima, S. Tasaka, I. Tezuka, Y. Tomita, D.N. Tovee, P. Trent, Y. Tsunecka, N. Ushida, S. Watanabe, O. Yamakawa and Y. Yanagisawa A274 (1989) 64

e^+e^- polarimetry at LEP, Placidi, M. and R. Rossmanith A274 (1989) 79
A 3 T superconducting magnet for the AMY detector, Doi, Y., T. Haruyama, H. Hirabayashi, S. Ishimoto, A. Maki, T. Mito, T. Omori, S. Terada and K. Tsuchiya A274 (1989) 95
Calibration of the L3 BGO electromagnetic calorimeter with a radiofrequency quadrupole accelerator, Ma, H., R. Mount, H. Newman, F. Roeber, R. Zhu, H. Akbari, C.Y. Chien, A. Pevsner and R. Hamm A274 (1989) 113
Energy and position resolution of silicon calorimeter used in the UA7 experiment, Bourotte, J., M. Haguenauer, E. Pare, V. Innocente, S. Lanzano, K. Kasahara, Y. Muraki, T. Yuda, A. Nakamoto, H. Murakami, T. Doke, T. Kashiwagi, J. Kikuchi and K. Masuda A274 (1989) 129
Experimental study of uranium plastic scintillator calorimeters, The ZEUS Calorimeter Group, G. D'Agostini, A. Bamberger, F. Barreiro, E. Bernardi, K. Dierks, G. Drews, J. Engelen, M. Garcia, R. Klanner, U. Kötz, J. Krüger, G. Levman, D. Lüke, J. Martin, E. Ros, F. Selonke, R. Van der Stad, J. Straver and H. Tiecke A274 (1989) 134
Laser cutting of plastic scintillator and light guide materials, Bähr, J., H. Bürwolff, A.-E. Schwind, M. Thiele and G. Wiedemann A274 (1989) 145
Construction and performance of a large area liquid scintillator cosmic ray anticoincidence detector, Napolitano, J.J., S.J. Freedman, G.T. Garvey, M.C. Green, K.T. Lesko, J.E. Nelson, J.N. Worthington, K.P. Coover, J.W. Dawson, W. Haberichter and E.P. Petereit A274 (1989) 152
Use of silicon microstrip detectors for precise measurement of high momenta, WA76 Collaboration, T.A. Armstrong, M. Benayoun, W. Beusch, I.J. Bloodworth, M. Caponero, J.N. Carney, R. Childs, B.R. French, B. Ghidini, Y. Goldschmidt-Clermont, A. Jacholkowski, J. Kahane, J.B. Kinson, A. Kirk, V. Lenti, Ph. Leruste, A.Malamant, J.L. Narjoux, F. Navach, A. Palano, E. Quercigh, N. Redaelli, L. Rossi, M. Sené, R. Sené, H.R. Shaylor, M. Stassinaki, M.T. Trainor, G. Vassiliadis, O. Villalobos Baillie, M.F. Votruba, G. Zito and R. Zitoun A274 (1989) 165
A system for removing both oxygen and nitrogen from a rare gas–hydrocarbon mixture, Dijkman, W.H. A274 (1989) 171
Nonflammable gas mixtures for streamer tubes, Moromisato, J.H., E.J. Saletan, E. Von Goeler, B. Jeckelmann and I.A. Pless A274 (1989) 177
The aging effect in a conductive plastic streamer tube coated with silicone oil, Homma, Y., Y. Hojyo, H. Sakae, J. Haba, T. Kamitani, N. Kanematsu, Y. Nagashima, H. Osabe, S. Sakamoto, S. Sugimoto, Y. Suzuki, A. Tsukamoto, T. Uebayashi, T. Yamashita, T. Sumiyoshi and F. Takasaki A274 (1989) 183
A study of drift chamber ageing with propane, Danilov, M., V. Nagovitsin, V. Shibaev, I. Tichomirov, E. Michel and W. Schmidt-Parzefall A274 (1989) 189
Measurement of the magnetic field of the CDF magnet, Newman-Holmes, C., E.E. Schmidt and R. Yamada ... A274 (1989) 443
Scintillation hodoscopes for time-of-flight measurements, Antipov, Yu.M., M.S. Bilenky, P. Cantoni, D.S. Denisov, C. De Martinis, O.V. Eroshin, P.L. Frabetti, Yu.P. Gorin, P.A. Kulinich, R. Leitner, V. Lelli, I.V. Mandrichenko, A.A. Nozdrin, A.G. Olshevski, P. Palombo, A.I. Petrukhin and G. Sola A274 (1989) 452
Fast simulation of the DELPHI detector, Cuevas, J., J. Marco, F. Richard, A. Ruiz and F. Simonetto A274 (1989) 459
Double particle resolution in semiconductor drift detectors, Gatti, E., P. Rehak and M. Sampietro A274 (1989) 469
Low noise design of readout electronics for microstrip vertex detectors, Manfredi, P.F., V. Re, V. Speziali and D. Marioli A274 (1989) 477
ARGUS: a universal detector at DORIS II, The ARGUS Collaboration, H. Albrecht, U. Binder, P. Böckmann, G. Drews, R. Gläser, G. Harder, H. Hasemann, A. Krolzig, E. Michel, W. Reinsch, W. Schmidt-Parzefall, H. Schröder, H.D. Schulz, F. Selonke, E. Steinmann, R. Wurth, A. Drescher, B. Gräwe, W. Hofmann, D. Kamp, A. Markees, U. Matthiesen, H. Scheck, B. Spaan, J. Spengler, D. Wegener, R. Heller, K.R. Schubert, J. Stiewe, K. Strahl, R. Waldi, S. Weseler, K.W. Edwards, W.R. Frisken, Ch. Fukunaga, D.J. Gilkinson, D.M. Gingrich, M. Goddard, H. Kapitza, P.C.H. Kim, R. Kutschke, D.B. MacFarlane, J.A. McKenna, K.W. McLean, A.W. Nilsson, R.S. Orr, B.P. Padley, P.M. Patel, J.D. Prentice, H.C.J. Seyerd, J.D. Swain, G. Tsipolitis, T.S. Yoon, J.C. Yun, R. Ammar, D. Coppage, R. Davis, S. Kanekal, N. Kwak, L. Jönsson, A. Arefiev, A. Babaev, M. Danilov, A. Golutvin, V. Lubimov, V. Matveev, V. Nagovitsin, V. Ryltsov, A. Semenov, Yu. Semenov, V. Shevchenko, V. Soloshenko, V. Tchistilin, I. Tichomirov, Yu. Zaitsev, R. Childers, C.W. Darden, H. Gennow and Y. Oku A275 (1989) 1
Performance of the forward electromagnetic calorimeter (FEMC) for the end caps of the DELPHI detector, Checchia, P., G. Galeazzi, U. Gasparini, I. Lippi, M. Mazzucato, M. Pegoraro, C. Pinori, F. Simonetto, L. Ventura, G. Zumerle, A. Lopez, J. Marco, A. Ruiz, F. Bianchi, R. Cirio, D. Gamba, E. Menichetti, G. Rinaudo, A. Romero, E. Castelli, L. Lanceri, P. Poropat, R. Ragazzon, M. Sessa, A. De Angelis, F. Scuri, F. Waldner, A. Ferrer, J.J. Gomez, A. Sebastia and J. Velasco A275 (1989) 49
Design and performance of the ASP lead-glass calorimeter, Bartha, G.T., D.L. Burke, P. Extermann, P.H. Garbincius, C.A. Hawkins, M.J. Jonker, L. Keller, C. Matteuzzi, N.A. Roe, T.R. Steele, A.S. Johnson, J.S. Whitaker, R.J. Wilson, C. Hearty, J.E. Rothberg, K.K. Young and R.J. Hollebeek A275 (1989) 59
Proportional chambers for the barrel hadron calorimeter of the L3 experiment, L3 Collaboration, A. Arefiev, T. Azemoon, U. Bachmann, R.C. Ball, W.E. Böhlen, M. Capell, C. Chen, H.S. Chen, M. Chumakov, Yu. Galaktionov, S. Goldfarb, A. Gordeev, Yu. Gorodkov, E. Härdi, H. Hofer, B.N. Jin, L.W. Jones, Yu. Kamyshkov, A.Klimentov, M. Koller, V. Koutsenko, V. Krylov, A. Kuhn, A. Kunin, P. Lecomte, P.

LeCoultre, H.T. Li, X.G. Li, X. Lou, Y.S. Lu, A. Malinin, V. Markizov, G.B. Mills, V. Morgunov, A. Nikitin, V. Plyaskin, V. Pojidaev, B.P. Roe, A. Savin, P. Schär, S. Shevchenko, V. Shevchenko, K. Shmakov, V. Shoutko, E. Shumilov, B. Spiess, X.W. Tang, E. Tarkovsky, V. Tchudakov, S.C.C. Ting, K.L. Tung, J. Ulbricht, I. Vetlitsky, I. Vorobiev, J.H. Wang, R.J. Wu, K.S. Yang, S.Y. Zhang and H.L. Zhuang A275 (1989) 71
High energy cosmic muons and the calibration of the L3 electromagnetic calorimeter, Bakken, J.A., L. Barone, J.J. Blaising, T. Boehringer, B. Borgia, D. Boutigny, J.P. Burq, M. Chemarin, R. Clare, G. Coignet, P. Denes, F. De Notaristefani, M. Diemoz, C. Dionisi, H. Elmamouni, P. Extermann, S. Falciano, F. Ferroni, G. Gratta, B. Ille, P. Kaaret, Y. Karyotakis, P. Klok, P. Lebrun, P. Lecoq, P.J. Li, E. Longo, D. Luckey, L. Luminari, J.P. Martin, M. Micke, U. Micke, G. Morand, S. Morganti, J. Ossmann, P.A. Piroué, W. Ruckstuhl, S. Salsedo, G. Sauvage, T.P. Schaad, D. Schmitz, M. Schneegans, D.P. Stickland, R.L. Sumner, C. Taylor, E. Valente, M. Vivargent, L. Vuilleumier, W. Walk, R. Weill and T. Wynen A275 (1989) 81
Performance of the silicon ring counters for the HELIOS experiment at CERN, Giubellino, P., F. Meddi, V.A. Polychronakos, L. Ramello, L. Riccati and S. Simone A275 (1989) 89
Comments on "On the energy resolution of uranium and other hadron calorimeters" (*Letter to the Editor*), Brau, J.E. and T.A. Gabriel A275 (1989) 190
Performance of a Pb–Cu liquid argon calorimeter with an iron streamer tube tail catcher, Braunschweig, W., F.J. Kirschfink, J. Tutas, E. Vogel, M. Widgoff, F.W. Brasse, W. Flauger, J. Gayler, V. Korbel, J. Marks, C. Zeitnitz, F. Brinker, S. Brinkmann, P. Hartz, K. Rauschnabel, A. Walther, D. Wegener, V. Brisson, D. Lellouch, P. Perrodo, C. Vallée, A.J. Campbell, K. Lau, F. Lipp, R. Weinstein, H.T. Blume, H. Greif, J. Huber, C. Kiesling, D. Lüers, H. Oberlack, P. Schacht, E. Von Goeler, J. Moromisato, B. Delcourt, A. Jacholkowska, E. Barrelet, J. Duboc, H.K. Nguyen, V. Bidoli, F. Ferrarotto, B. Stella, M. Besançon, G. Cozzika, M. David, J. Feltesse, A. De Lesquen, P. Verrecchia, G. Villet and U. Straumann A275 (1989) 246
Quantum bremsstrahlung in almost uniform fields, Bell, M. and J.S. Bell A275 (1989) 258
The DELPHI barrel RICH electrostatic configuration tests, Kalkanis, G., W. Klempt and E. Rosso A275 (1989) 267
A new BGO crystal with higher radiation hardness, Yin, Z.W., Z.Y. Wei, D.Z. Shen and Y.Y. Xie A275 (1989) 273
The MARK III vertex chamber, Adler, J., T. Bolton, K. Bunnell, R. Cassell, E. Cheu, R. Eisele, T. Freese, C. Grab, G. Mazaheri, R. Mir, A. Odian, D. Pitman, W. Stockhausen, W. Toki, F. Villa, W. Wadley, S. Wasserbaech and W. Wisniewski A276 (1989) 42
Current leads for HERA, Ben-Zvi, I., B.V. Elkonin, J.S. Sokolowski and D. Sellmann A276 (1989) 53
A pilot study of the radiation resistance of selected plastic scintillators, Zorn, C., M. Bowen, S. Majewski, J. Walker, R. Wojcik, C. Hurlbut and W. Moser A276 (1989) 58
A new plastic scintillator with large Stokes shift, Destruel, P., M. Taufer, C. D'Ambrosio, C. Da Via, J.P. Fabre, J. Kirkby and H. Leutz A276 (1989) 69
A study of the transport of high energy muons through a soil shield at the Tevatron, Cossairt, J.D., A.J. Elwyn, W.S. Freeman and S.W. Butala A276 (1989) 78
A study of the production and transport of muons through shielding at the Tevatron, Cossairt, J.D., A.J. Elwyn and W.S. Freeman A276 (1989) 86
The iron calorimeter and muon identifier for SLD, Benvenuti, A.C., G. Callegari, L. Piemontese, A. Calcaterra, R. De Sangro, P. De Simone, I. Peruzzi, M. Piccolo, W. Busza, S.L. Cartwright, J.I. Friedman, S. Fuess, S. Gonzalez, T. Hansl-Kozanecka, H.W. Kendall, T. Lyons, L.S. Osborne, L. Rosenson, U. Schneekloth, F.E. Taylor, R. Verdier, D. Williams, J.M. Yamartino, N. Bacchetta, D. Bisello, A. Castro, M. Loreti, L. Pescara, D. Toniolo, J. Wyss, B. Alpat, C. Artemi, R. Battiston, G.M. Bilei, C. Cappelletti, R. Dell'Orso, G. Mantovani, M. Pauluzzi, M. Scarlatella, L. Servoli, F. Beconcini, R. Castaldi, C. Vannini, P.G. Verdini, B.L. Byers, D. Kharakh, R.L. Messner, R.W. Zdarko and J.R. Johnson A276 (1989) 94
Estimation of the lifetime of short-lived particles using their production characteristics, Begalli, M., C. Caso, P. Checchia, N. Colino, Ch. Defoix, J. Dolbeau, C. Fisher, J. Fry, D. Gibaut, M.I. Josa, L. Lyons, M.E. Michalon-Mentzer, A. Michalon and K. Roberts A276 (1989) 105
Trapping low energy antiprotons from the FNAL accumulator, Kells, W.P. A276 (1989) 117
A large silicon detector to measure the antiproton range in a liquid hydrogen target, Chiba, M., Y. Nakagawa, T. Wada, M. Koike, M. Kobayashi, T. Fujitani, T. Omori, S. Sugimoto and Y. Yamaguchi A276 (1989) 122
Response of a thin avalanche detector to simultaneous minimum ionizing particles, Alburger, D.E., Y. Akiba, E. Baker, L. Birstein, J.W. Olness and M.J. Tannenbaum A276 (1989) 127
Self-quenching streamer-tube detectors in the WA80 experiment, Albrecht, R., R. Bock, G. Claesson, H.H. Gutbrod, J. Hoffmann, B.W. Kolb, U. Kopf, A. Loos, I. Lund, M. Marquardt, A. Przybyla, R. Schulze, T. Siemiarczuk, A. Eklund, S.I.A. Garpman, P. Kristiansson and F. Berger A276 (1989) 131
The use of n-hexane in the gas mixture for streamer tubes, Battistoni, G., V. Chiarella, U. Denni and J. Reynoldson A276 (1989) 140
Effects of oxygen and nitrogen on drifting electrons in a liquid argon TPC, Biller, S.D., D. Kabat, R.C. Allen, G. Bühler and P.J. Doe A276 (1989) 144
A new radiation-hard plastic scintillator (*Letter to the Editor*), Bowen, M., S. Majewski, J. Walker and C. Zorn . A276 (1989) 391
On the energy resolution of electromagnetic sampling calorimeters, Del Peso, J. and E. Ros A276 (1989) 456

A neural-network approach to the problem of photon-pair combinatorics, Awes, T.C. A276 (1989) 468
A Fastbus digitiser for the UA2 scintillating fibre detector, Katvars, S.G., B.T. McCluskey and J.M. Pentney .. A276 (1989) 482
An improved method for manufacturing accurate and cheap glass parabolic mirrors, Baillon, P., A. Braem, G. Gendre, G. Muratori and C. Nichols A276 (1989) 492
Light-pipe optical joints made from silicone disks, Rangan, L.K., E.I. Shibata and J.S. Loos A276 (1989) 496
Particle identification with a combined hodoscope calorimeter (*Letter to the Editor*), IHEP–IISN–LANL–LAPP Collaboration, D. Alde, F.G. Binon, C. Bricman, V.C. Datsko, S.V. Donskov, M. Gouanère, A.V. Inyakin, V.A. Kachanov, D.B. Kakauridze, G.V. Khaustov, E.A. Knapp, A.V. Kulik, A.A. Lednev, J.P. Peigneux, Yu.D. Prokoshkin, Yu.V. Rodnov, V.I. Rykalin, S.A. Sadovsky, V.D. Samoylenko, P.M. Shagin, A.V. Shtannikov, A.V. Singovsky, J.P. Stroot and V.P. Sugonyaev A276 (1989) 652

Proceedings of the Third Topical Seminar on Perspectives for Experimental Apparatus at Future High-Energy Machines and Underground Laboratories (San Miniato, Italy, March 7–11, 1988)

Section I. Underground experiments and gamma astronomy

A review of running underground experiments, Arpesella, C. A277 (1989) 1
The large-volume detector (LVD) – A multipurpose underground detector at Gran Sasso, Bari, G., M. Basile, G. Bruni, G. Cara Romeo, A. Castelvetri, L. Cifarelli, A. Contin, C. Del Papa, P. Guisti, G. Iacobucci, G. Maccarrone, T. Massam, R. Nania, V. O'Shea, F. Palmonari, E. Perotto, G. Sartorelli, M. Willutzky, M. Aryal, K. De, A.M. Shapiro, M. Widgoff, J.A. Chincellato, C. Dobrigkeit-Chincellato, A.C. Fauth, A. Turtelli, F. Rohrbach, A. Zichichi, L. Caputi, G. Susinno, G. Barbagli, G. Conforto, G. Landi, P. Pelfer, G. Anzivino, S. Bianco, R. Casaccia, F. Cindolo, M. Defelice, Y. Dong, M. Enorini, F.L. Fabbri, C. Jing, I. Laakso, S. Qian, Z. Shi, A. Spallone, Y. Sun, L. Votano, A. Zallo, K. Lau, F. Lipps, B. Mayes, G.H. Mo, L. Pinsky, J. Pyrlik, D. Sanders, W.R. Sheldon, R. Weinstein, Y. Dai, L. Din, G. Jing, Z. Lu, P. Shen, Q. Zhu, D. Alyea, T. Kitamura, Y. Minorikawa, G. Di Sciascio, R. Scrimaglio, P. Rotelli, G.E. Kocharev, V. Vasileyev, M. Deutsch, E.S. Hafen, P. Haridas, B. Jeckelmann, G. Ji, H.H. Huang, C.S. Mao, A. Pitas, I.A. Pless, S.W. Wang, Y.R. Wu, Y.R. Yuan, C.Z. Zhao, V.S. Berezinsky, V.L. Dadykin, F.F. Khaichukov, E.V. Korolkova, P.V. Kortchaguin, V.B. Kortchaguin, V.A. Kudryavtsev, A.S. Markov, V.G. Ryassny, O.G. Ryazhskaya, V.P. Talochkin, V.F. Yakushev, G.T. Zatsepin, J. Moromisato, E. Saletan, D. Shambroom, E. Von Goeler, N. Takahashi, I. Yamamoto, T. Wada, G. D'Ali, S. De Pasquale, B. Alpat, F. Artemi, M. Italiani, P. Diodati, P. Salvadori, A. Misaki, N. Inoue, T. Hara, C. Aglietta, G. Badino, L. Bergamasco, C. Castagnoli, A. Castellina, G. Cini, M. Dardo, W. Fulgione, P. Galeotti, P. Ghia, C. Morello, G. Navarra, L. Periale, P. Picchi, O. Saavedra, G.C. Trinchero, P. Vallania, S. Vernetto, F. Grianti and F. Vetrano A277 (1989) 11
The properties of the detection system of the LVD/UNO experiment, Aglietta, M., W. Fulgione, O. Saavedra and G. Trinchero A277 (1989) 17
The EAS–TOP array at $E_0 = 10^{14}$–10^{16} eV: stability and resolutions, Aglietta, M., G. Badino, L. Bergamasco, C. Castagnoli, A. Castellina, G. Cini, M. Dardo, B. D'Ettorre-Piazzoli, W. Fulgione, P. Galeotti, P. Ghia, G. Mannocchi, C. Morello, G. Navarra, L. Periale, P. Picchi, O. Saavedra, G. Trinchero, P. Vallania and S. Vernetto A277 (1989) 23
Cosmic ray tracking – A new approach to high-energy γ-astronomy, Heintze, J., P. Lennert, S. Polenz, B. Schmidt, W. Brückner, B. Povh and J. Spitzer A277 (1989) 29

Section II. Calorimetry

Contribution of intrinsic and sampling fluctuations to the total hadronic energy resolution, The ZEUS Calorimeter Group (presented by H. Tiecke) A277 (1989) 42
Calibration of the ZEUS calorimeter, Bamberger, A., J. Lehmann, D. Schäcke and M. Wülker A277 (1989) 46
Monte Carlo simulation on event-by-event base of calorimeter experiments with uranium/scintillator layers using the HERMES code system, Anders, B., P. Cloth, D. Filges, Ch. Reul and G. Sterzenbach A277 (1989) 56
Hadronic energy measurement in the ALEPH calorimeter prototype, De Palma, M. A277 (1989) 68
A setup for the calibration of the HPC readout chambers, Camporesi, T., C. Geara, F.L. Navarria, R. Seufert and G. Valenti A277 (1989) 77
Experimental results obtained from a low-Z, fine-grained electromagnetic calorimeter, De Winter, K., D. Geiregat, P. Vilain, G. Wilquet, F. Bergsma, U. Binder, H. Burkard, A. Capone, A. Ereditato, W. Flegel, H. Grote, C. Nieuwenhuis, H. Øveràs, V. Palladino, J. Panman, G. Piredda, K. Winter, G. Zacek, V. Zacek, T. Bauche, R.Beyer, V. Blobel, F.W. Büsser, C. Foos, L. Gerland, F. Niebergall, P. Stähelin, A. Tadsen, T. Delbar, B. Emsens, D. Favart, G. Grégoire, E. Knoops, T. Mouthuy, P. Gorbunov, E. Grigoriev, V. Khovansky, A. Maslennikov, A. Rosanov, W. Lippich, A. Nathaniel, A. Staude, M. Caria, E. Gorini, F. Grancagnolo, R. Iasevoli, P. Strolin, D. De Pedis, E. Di Capua, U. Dore, P.F. Loverre, A. Rambaldi-Frenkel, R. Santacesaria and D. Zanello A277 (1989) 83

Section III. Tracking detectors

Tracking at 1 TeV, Sadrozinski, H.F.-W., A. Seiden and A.J. Weinstein A277 (1989) 92
A central tracking detector for a B-factory, Grancagnolo, F. A277 (1989) 110
A cylindrical MWPC and radial projection chamber for the E760 experiment, Calabrese, R., V. Carassiti, P. Dalpiaz, P.F. Dalpiaz, E. Luppi, M. Martini, S. Palestini, F. Petrucci and M. Savrié A277 (1989) 116
Test of a self-supporting detection gap, the Wellblech structure, for a time expansion chamber, Bosseler, K., D. Dorsel, U. Herten, M. Grünewald, M. Sachwitz and M. Tonutti A277 (1989) 121
The construction of a scintillating-fiber tracking and preshower detector for the UA2 improvement program, Crittenden, J.A. A277 (1989) 125
High-resolution tracking with scintillating fibres, Angelini, C., W. Beusch, I.J. Bloodworth, J.N. Carney, D.J. Crennell, M. De Vincenzi, A. Duane, J.P. Fabre, C.M. Fisher, V. Flaminio, A. Frenkel, K. Harrison, P. Hughes, J.B. Kinson, E. Lamanna, H. Leutz, G. Martellotti, J.G. McEwen, D.R.O. Morrison, G. Penso, S. Petrera, E. Quercigh, C. Roda, A. Sciubba, O. Villalobos-Baillie, M.F. Votruba and D.M. Websdale A277 (1989) 132
Silicon detectors for p–$\bar{p}$ small-angle physics, Apollinari, G., F. Bosi, S. Belforte, E. Focardi, R. Paoletti, G. Tonelli and F. Zetti A277 (1989) 138
Double-sided readout silicon strip detectors for the ALEPH minivertex, Batignani, G., F. Bosi, L. Bosisio, A. Conti, E. Focardi, F. Forti, M.A. Giorgi, G. Parrini, E. Scarlini, P. Tempesta, G. Tonelli and G. Triggiani .. A277 (1989) 147
Progress in the construction of the DELPHI microvertex detector, Burns, M., H. Dijkstra, R. Horisberger, L. Hubbeling, B.D. Hyams, G. Maehlum, A. Peisert, J.P. Vanuxem, P. Weilhammer, A. Zalewska, W. Krupinski, H. Palka, M. Turala, T. Palenius, E. Sundell, T. Tuuva, M. Caccia, W. Kucewicz, C. Meroni, M. Pegoraro, N. Redaelli, R. Turchetta, A. Stocchi, C. Troncon, G. Vegni, M. Mazzucato, F. Simonetto, G. Zumerle, P. Allport, G. Kalmus, P. Seller, J. Stanton, M. Tyndel and N. Bingefors A277 (1989) 154
Physics aspects of the DELPHI vertex detector, Dijkstra, H., R. Horisberger, B.D. Hyams, G. Maehlum, A. Peisert, P. Weilhammer, A. Zalewska, W. Krupinski, H. Palka, M. Turala, T. Palenius, E. Sundell, T. Tuuva, S. Johansson, M. Caccia, C. Meroni, N. Redaelli, A. Stocchi, R. Turchetta, C.Troncon, G. Vegni, M. Mazzucato, F. Simonetto, G. Zumerle, Ch. De la Vaissiere, S. Palma Lopes, P. Allport, G. Kalmus, M. Tyndel and W. Mitaroff A277 (1989) 160

Section IV. Particle identification

An electron–hadron separator for digital sampling calorimeters, De Winter, K., D. Geiregat, P. Vilain, G. Wilquet, F. Bergsma, U. Binder, H. Burkard, A. Capone, A. Ereditato, W. Flegel, H. Grote, C. Nieuwenhuis, H. Øverås, V. Palladino, J. Panman, G. Piredda, K. Winter, G. Zacek, V. Zacek, T. Bauche, R.Beyer, V. Blobel, F.W. Büsser, C. Foos, L. Gerland, F. Niebergall, P. Stähelin, A. Tadsen, T. Delbar, B. Emsens, D. Favart, G. Grégoire, E. Knoops, T. Mouthuy, P. Gorbunov, E. Grigoriev, V. Khovansky, A. Maslennikov, A. Rosanov, W. Lippich, A. Nathaniel, A. Staude, M. Caria, E. Gorini, F. Grancagnolo, R. Iasevoli, P. Strolin, D. De Pedis, E. Di Capua, U. Dore, P.F. Loverre, A. Rambaldi-Frenkel, R. Santacesaria and D. Zanello ... A277 (1989) 170
Experimental study of electron–hadron separation in calorimeters using silicon diodes, Dwuraźny, A., W. Krupinski, G. Barbagli, P.G. Pelfer, D.G. Cassel, R. Klanner, U. Kötz, W. Koch, J. Tengeler and N. Wainer A277 (1989) 176
Muon detection in the L3 experiment at LEP, Adeva, B., M. Aguilar-Benitez, D. Antreasyan, U. Becker, J. Berdugo, G.J. Bobbink, J. Branson, J. Burger, C. Burgos, D. Campana, F. Carbonara, M. Cerrada, Y.H. Chang, M.L. Chen, G. Chiefari, E. Drago, P. Duinker, I. Duran, F.C. Erné, R. Fabbretti, M. Fabre, S.S. Gau, M. Gettner, E. Gonzalez, H. Van der Graaf, F.G. Hartjes, V. Innocente, A.C. König, S. Lanzano, J.M. LeGoff, J. Li, C. Mana, L. Martinez-Laso, G.G.G. Massaro, P. McBride, L. Merola, M. Napolitano, J. Onvlee, G. Paternoster, S. Patricelli, Y. Peng, O. Prokofiev, J.M. Qian, P. Razis, L. Romero, J.A. Rubio, H. Rykaczewski, J. Salicio, A. Schetkowski, P. Schmitt, C. Sciacca, P. Seiler, V. Suvorov, K. Strauch, C. Timmermans, S. Volkov, J.H. Wang, Q.F. Wang, T. Wenaus, M. White, R. Wilhelm, C. Willmott, B. Wyslouch, C.G. Yang and S.C. Yeh A277 (1989) 187

Section V. Electronics and data acquisition

Limitations in the accuracy of detector charge measurements set by the $1/f$-noise in the front-end amplifier, Lutz, G., P.F. Manfredi, V. Re and V. Speziali A277 (1989) 194
A 1 K front-end electronics for a cryogenic bolometric detector, Camin, D.V. A277 (1989) 204
Conventional readout electronics for superheated superconducting grains – first experimental results, De Bellefon, A., D. Broszkiewicz, R. Bruère-Dawson, P. Espigat, D. Sotiras and G. Waysand A277 (1989) 211
Design and performance of a 10 MHz CMOS analog pipeline, Buttler, W., A. Caldwell, C. Hayes, L. Hervas, A. Hofmann, B. Hosticka, R. Klanner, U. Kötz, P. Malecki, J. Möschen, J. Del Peso, U. Schöneberg and W. Sippach A277 (1989) 217
The front-end electronics and the Fastbus readout module for the SLD limited streamer tubes, Beconcini, F., G.M. Bilei, R. Castaldi, U. Cazzola, R. Dell'Orso and P.G. Verdini A277 (1989) 222

A scheme for the HPC second-level trigger, Camporesi, T., F.R. Cavallo, C. Chiccoli, G. Gamberini, P. Guisti, F.-L. Navarria, P. Pasini, P. Privitera and T. Rovelli A277 (1989) 230

Section VI. Technology

A new type of position-sensitive electron multiplier, Agoritsas, V., K. Kuroda and Ch. Nemoz A277 (1989) 237
A new trend in photomultiplier techniques and its implications in future collider experiments, Kuroda, K. A277 (1989) 242
Radiation damag of wavelength shifters and its recovery in the presence of oxygen, Wick, K., G. Riedel, D. Paul and V. ? eber A277 (1989) 251
A study of nonflammable fast CF_4-based mixtures for limited streamer tubes, Alpat, B., C. Artemi, F. Babucci, G. Bilei, R. Battiston, M. Italiani, G. Mantovani, M. Pauluzzi and L. Servoli A277 (1989) 260
A study of nonflammable Ar–CO_2–hydrocarbon gas mixtures for limited streamer tubes, Cartwright, S., U. Schneekloth, B. Alpat, C. Artemi, R. Battiston, G. Bilei, M. Italiani, M. Pauluzzi, L. Servoli, R. Messner, J. Wyss, R. Zdarko and J. Johnson A277 (1989) 269

Production of 300 paraboloidal mirrors with high reflectivity for use in the Barrel RICH counter in DELPHI at LEP, Baillon, P., A. Braem, T. Ekelöf, G. Gendre, A. Hallgren, G. Muratori, C. Nichols, T. Rydqvist and S. Walles A277 (1989) 338
The TSU: a FASTBUS module for the TOF detector of DELPHI, Allen, P., J.M² Benlloch, A. Ferrer, E. Higón, E. Sanchez, E. Sanchis and M.A. Sanchis A277 (1989) 347
A dedicated TPC track processor for the ALEPH second level trigger, Medcalf, T., M.R. Saich and J.A. Strong . A277 (1989) 358
Construction and analysis of a prototype z drift chamber for the H1 experiment, Robmann, P., C.A. Meyer, K. Bösiger, S. Egli, J. Koch, B.A. Schmid, U. Straumann, P. Truöl, R. Eichler and R. Holzreuter A277 (1989) 368
Scintillating plastic fibres for hadron calorimetry, Hartjes, F.G. and R. Wigmans A277 (1989) 379
A fine-grain modular detector for low-energy particles, Durkin, L.S., J.S. Fitch, R.W. Harper, J.W. Heimaster, D.R. Larsen, T.Y. Ling, J.W. Mitchell, T.A. Romanowski, C.J. Rush, V.K. Sehgal, E.S. Smith, M. Timko, B.K. Fujikawa, R. McKeown, W.C. Choi, A. Fazely, R.L. Imlay, W.J. Metcalf, W. Marterer, J.B. Donahue and V. Sandberg A277 (1989) 386
Radiation damage of silicon junction detectors by neutron irradiation, Hasegawa, M., S. Mori, T. Ohsugi, H. Kojima, A. Taketani, T. Kondo and M. Noguchi A277 (1989) 395
Monte Carlo simulation of the performance of the D0 transition radiation detector, Ducros, Y., F. Feinstein, J.R. Hubbard, Ph. Mangeot, B. Mansoulié, J. Teiger and A. Zylberstejn A277 (1989) 401
An impurity monitor for room temperature liquid ionization chambers, Moreau, F. and E. Barrelet A278 (1989) 417
Superconducting detector for minimum ionizing particles, Gabutti, A., R.G. Wagner, K.E. Gray, R.T. Kampwirth and R.H. Ono A278 (1989) 425
Dead time due to trigger processing in a data acquisition system with multiple event buffering, Heath, G.P. ... A278 (1989) 431
VLSI structures for track finding, Dell'Orso, M. and L. Ristori A278 (1989) 436
Sources of compensation in hadronic calorimeters, Goodman, M.S., T.A. Gabriel, A. Di Ciaccio and R. Wilson . A278 (1989) 441
Erratum to "hadron showers in a low-density fine-grained flash chamber calorimeter", Womersley, W.J., J.K. Walker, D. Bogert, L. Stutte, J. Bofill, J.I. Friedman, S. Fuess, M.C. Goodman, H.W. Kendall, V. Kistiakowsky, T. Lyons, L.S. Osborne, R.E. Pitt, B. Strongin, F.E. Taylor, M. Abolins, R. Brock, W.G. Cobau, R.W. Hatcher, D. Owen, G.J. Perkins, M. Tartaglia and H. Weerts A278 (1989) 447
UV laser beam profile measurement by means of the photoelectric effect on the wires of a proportional chamber (*Letter to the Editor*), Prokoviev, O. and P.G. Seiler A278 (1989) 608
A detector for the study of neutrino–electron scattering, The CHARM II Collaboration, K. De Winter, J.P. Dewulf, D. Geiregat, P. Vilain, G. Wilquet, F. Bergsma, U. Binder, H. Burkhard, A. Capone, W. Flegel, B. Friend, H. Grote, A. King, C. Nieuwenhuis, H. Øverås, V. Palladino, J. Panman, G. Piredda, A. Seiden, K. Winter, G. Zacek, V. Zacek, T. Bauche, R. Beyer, V. Blobel, F.W. Büsser, C. Foos, L. Gerland, F. Niebergall, H. Riege, J. Schütt, P. Stähelin, A. Tadsen, T. Delbar, D. Favart, G. Grégoire, E. Knoops, T. Mouthuy, P. Gorbunov, E. Grigoriev, V. Jemanov, V. Khovansky, A. Maslennikov, A. Rosanov, D. Braun, W. Lippich, A. Nathaniel, A. Staude, M. Caria, A. Ereditato, E. Gorini, F. Grancagnolo, R. Iasevoli, P. Strolin, G. Basti, D. De Pedis, E. Di Capua, U. Dore, A. Frenkel-Rambaldi, S. Guerra, P.F. Loverre, R. Santacesaria and D. Zanello A278 (1989) 670
On the determination of the mass and width of the Z^0 from the total hadronic cross section in e^+e^- annihilation, De Boer, W. A278 (1989) 687
A method to calibrate the light response of a high resolution electromagnetic calorimeter with cosmic rays, Borgia, B., M. Diemoz and S. Morganti A278 (1989) 699
Proton polarimeter for high energy experiments at KEK, Ohmori, C., N. Horikawa, Y. Ishida, T. Iwata, T. Kinashi, I. Maeda, T. Matsuda, T. Nakanishi, S. Okumi, Y. Takeda, T. Toyama, Y. Kobayashi, T. Nakagawa, S. Hiramatsu, S. Ishimoto, Y. Mori, H. Sato, T. Tsuru, T. Hasegawa, K. Mori, K. Iwatani, H. Hasai, F. Nishiyama, A. Ueno and J.A. Holt A278 (1989) 705

Inclusion of correlations in the empirical selection of intranuclear cascade nucleons from high energy hadron–nucleus collisions, Alsmiller, F.S. and R.G. Alsmiller Jr A278 (1989) 713
Choice of gas mixture for limited streamer mode tubes, Akopdjanov, G.A. A278 (1989) 722
Measurement and prediction of the drift-distance/drift-time relationship of a small jet chamber operated with carbon dioxide/isobutane, Carter, J.R., P.A. Elcombe, J.C. Hill, A.A. Carter, M.M.B. Lasota, P. Kyberd, S.L. Lloyd, D. Newman-Coburn, T.W. Pritchard and T.R. Wyatt A278 (1989) 725

Proceedings of the International Conference on Advanced Technology and Particle Physics (Villa Olmo, Como, Italy, June 13–17, 1988)

Section I. Future accelerators

Radiation levels in SSC detectors, Groom, D.E. A279 (1989) 1
Progress in accelerators and detectors at TRISTAN, Nakajima, K. A279 (1989) 7
A superconducting radiofrequency e^+e^- linear collider for bottom quark and nuclear physics studies, Coignet, G. A279 (1989) 16
Detector considerations at high luminosity hadron colliders, Russ, J.S. A279 (1989) 29

Section II. Calorimetry

Theoretical studies of hadronic calorimetry for high luminosity, high energy colliders, Brau, J.E. and T.A. Gabriel A279 (1989) 40
Silicon sampling hadronic calorimetry: a tool for experiments at the next generation of colliders, SICAPO Collaboration, E. Borchi, R. Macii, S. Mazzoni, I. Fedder, G. Lindstroem, C. Bertrand, F. Lamarche, C. Leroy, A. Villari, M. Bruzzi, C. Furetta, R. Paludetto, S. Pensotti, P.G. Rancoita, C. Simeone, L. Venturelli, L. Vismara, J.E. Brau, N. Croituro, A. Seidman, S.C. Berridge, W.M. Bugg, R. Giacomich, A. Penzo, E. Toppano, P. Giubellino, L. Ramello, L. Riccati, M. Pisani and R. Steni A279 (1989) 57
Longitudinal and transverse development of electromagnetic showers using silicon detectors, SICAPO Collaboration, F. Lemeilleur, F. Lamarche, C. Leroy, R.Paludetto, S. Pensotti, P.G. Rancoita, L. Vismara and A. Seidman A279 (1989) 66
Performance of a light flasher system for a prototype CsI calorimeter and the design for CLEO II, Kubota, Y. and C. O'Grady A279 (1989) 73
Prospects for homogeneous warm liquid calorimetry, Heusch, C.A. A279 (1989) 77
Construction and performance of a position detector for the UA1 uranium–TMP calorimeter, UA1 Collaboration, K. Ankoviak, G. Bauer, C. Buchanan, D. Cline, A. Di Ciaccio, H. Evans, T.A. Fuess, S. Geer, A. Gonidec, J. Gronberg, M. Lindgren, M. Mohammadi, R. Munoz, L. Naumann, E. Radermacher, J.-P. Revol, J. Rohlf, C. Rubbia, E. Sadowski, D. Schinzel, C. Seez, W. Seidl, D. Stork, K. Sumorok, S. Tether and X. Wu A279 (1989) 83
Ultrafine electromagnetic calorimetry: the Y(4s) case, Borgia, B., F. Ferroni and E. Longo A279 (1989) 91
Advanced forward calorimetry for the SSC and TeVatron collider, DiBitonto, D., P.M. Van Peteghem, R.L. Geiger, P.M. McIntyre, Y. Pang, J.M. Thane, J.T. White and M. Atac A279 (1989) 100
The hadron and electron response of uranium/liquid argon calorimeter modules for the D-zero detector, D0 Collaboration, S.J. Wimpenny A279 (1989) 107
Forward calorimetry in the upgraded UA1 experiment, UA1 Collaboration, F.J. Alvarez-Taviel, C. Bacci, F. Diez-Hedo, P. Doncel, A. Ferrando, A. Givernaud, M.A. Marquina, E. Petrolo, T. Rodrigo, C. Rubbia, A. Tusi and V. Vuillemin A279 (1989) 114
First use of a neutron burst generator to calibrate a U–TMP calorimeter, Aubert, B., J. Colas, Ph. Ghez, J.C. Lacotte, B. Mours, I. Wingerter and M. Yvert A279 (1989) 126

Section III. Underground experiments

The Gran Sasso National Laboratory, Paoluzi, L. A279 (1989) 133
Tracking techniques in underground physics, Battistoni, G. A279 (1989) 137
Bolometric detection of particles, Alessandrello, A., D.V. Camin, E. Fiorini, A. Giuliani, M. Buraschi and G. Pignatel A279 (1989) 142
Performance test of low-noise proportional counters for the GALLEX experiment, D'Angelo, S. A279 (1989) 148

Section IV. Readout electronics

High density monolithic front-end systems for detectors without charge multiplication, Manfredi, P.F. and V. Speziali A279 (1989) 152

Electronics and readout of the UA1 uranium–TMP calorimeter, UA1 Experiment, C. Bacci, J. Boniface, R. Bonino, G. Busetto, A. Caner, P. Casoli, P. Cennini, F. Ceradini, J. Colas, R. Conte, M. De Giorgi, F. Lacava, J.C. Lacotte, R. Martinelli, A.T. Meneguzzo, M. Nicoletto, E. Petrolo, A. Tusi, S. Veneziano and L. Zanello A279 (1989) 169
Waveform digitizing at 500 MHz, Atiya, M., M. Ito, J. Haggerty, C. Ng and F.W. Sippach A279 (1989) 180
A fast bipolar microstrip readout chip, Dorfan, D.E. A279 (1989) 186
Silicon detector tests with the RAL microplex readout chip, Joyce, D., J.-P. Merlo, K. Morgan, D. Smith, L. Baumard, V. Vuillemin, M. Pimia, J. Ellison, I. Siotis, L. Taylor, P. Allport, P. Seller, J. Stanton and M. Tyndel A279 (1989) 189
Low-noise transformerless front-end electronics for moderate and high capacitance calorimeters, Camin, D.V., C. Cattadori, S. Lattore, F. Ragusa and G. Ranucci A279 (1989) 195
JFET-CMOS microstrip front-end, Buttler, W., V. Liberali, G. Lutz, F. Maloberti, P.F. Manfredi, V. Re and V. Speziali A279 (1989) 204
Performance of the three-dimensional readout of the ALEPH inner tracking chamber, Barber, G.J., A.T. Belk, R. Beuselinck, D.M. Binnie, W. Cameron, M. Cattaneo, P.J. Dornan, S. Dugeay, R.W. Forty, D.A. Garbutt, D.N. Gentry, J.F. Hassard, A.P. Heinson, M. MacDermott, D.G. Miller, D.R. Price, J.K. Sedgbeer, A.T. Watson and A.P. White A279 (1989) 212

Section V. Tracking devices

The central JET chamber of the H1 experiment, Bürger, J., L. Criegee, G. Franke, H. Klär, J. Meyer, J. Schug, M. Schulz, P. Steffen, P. Waloschek, G.G. Winter, W. Zimmermann, U. Gaethke, E. Schenuit and H. Spitzer A279 (1989) 217
Tracking at the SSC/LHC, Sadrozinski, H.F.-W., A. Seiden and A.J. Weinstein A279 (1989) 223
The OPAL vertex prototype, Roney, J.M., J.C. Armitage, R.K. Carnegie, G.L. Giles, R.J. Hemingway, A.C. McPherson, J.L. Pinfold, J. Waterhouse, L. Godfrey, C.K. Hargrove, J.R. Carter, P.A. Elcombe, J.C. Hill, A.A. Carter, S.L. Lloyd and T.W. Pritchard A279 (1989) 236
The central tracking detectors for DØ, Clark, A.R., F. Goozen, C. Klopfenstein, L.T. Kerth, S. Loken, M. Strovink, T.G. Trippe, J. Bantly, D. Buchholz, D. Claes, B. Gobbi, S. Rajagopalan, T. Behnke, O. Callot, J. Cochran, R. Engelmann, G. Finocchiaro, D. Pizzuto, G. Rahal-Callot, M. Rijssenbeek and F. Stocker A279 (1989) 243
Holography in the 15-foot bubble chamber, E-632 Collaboration, G.G. Harigel A279 (1989) 249
First running experience with the laser calibration system of the UA1 Central Detector, Beingessner, S.P., T.C. Meyer, A. Norton, M. Pimiä, C. Rubbia and V. Vuillemin A279 (1989) 253
Silicon detectors in a high multiplicity environment, Giubellino, P., L. Ramello and L. Riccati A279 (1989) 259

Section VI. Radiation damage studies

Fast neutron damage in silicon detectors, Kraner, H.W., Z. Li and K.U. Posnecker A279 (1989) 266
Performance characteristics and radiation damage results from the Fermilab E706 silicon microstrip detector system, Engels Jr, E., S. Mani, D. Orris, P.F. Shepard, P.D. Weerasundara, B.C. Choudhary, U. Joshi, V. Kapoor, R. Shivpuri, W. Baker, D. Berg, D. Carey, C. Johnstone, C. Nelson, C. Bromberg, D. Brown, J. Huston, R. Miller, A. Nguyen, R. Benson, P. Lukens, K. Ruddick, G. Alverson, W. Faissler, D. Garelick, M. Glaubman, I. Kourbanis, C. Lirakis, E. Pothier, A. Sinanidis, G.-H. Wu, T. Yasuda, C. Yosef, S. Easo, K. Hartman, B.Y. Oh, W. Toothacker, J. Whitmore, G. Ballocchi, L. Debarbaro, W. Desoi, G. Fanourakis, T. Ferbel, G. Ginther, P. Gutierrez, A. Lanaro, F. Lobkowicz, J. Mansour, G. Pedeville, E. Prebys, D. Skow, P. Slattery, N. Varelas and M. Zielinski A279 (1989) 272
Deep-level transient spectroscopy measurements of majority carrier traps in neutron-irradiated n-type silicon detectors, Borchi, E., C. Bertrand, C. Leroy, M. Bruzzi, C. Furetta, R. Paluc'etto, P.G. Rancoita, L. Vismara and P. Giubellino A279 (1989) 277
Ageing of scitillating fibers, natural and otherwise, Blumenfeld, H., M. Bourdinaud and A.V. Stirling A279 (1989) 281

Section VII. Triggering systems

Trigger using track search and kinematical analysis for rare decay channels at high rates, CP-LEAR Collaboration, The, D.A. Tröster, R. Adler, J.R. Fry, T. Geralis, C. Jacobs, E. Machado, P. Pavlopoulos, C. Rehme, D. Sacker, G. Tarrach, P. Tsilimigras and E.J. Watson A279 (1989) 285
Vertex triggering using time difference measurements in the ZEUS Central Tracking Detector, Harnew, N., G.P. Heath, M.D. Jeffs, J. Nash, G.L. Salmon, P.D. Shield, D.J. White and F.F. Wilson A279 (1989) 290
UA1 upgrade first-level calorimeter trigger processor, Bains, N., S.A. Baird, D. Campbell, M. Cawthraw, D. Charlton, J. Coughlan, E. Eisenhandler, N. Ellis, I. Fensome, P. Flynn, S. Galagedera, J. Garvey, G. Grayer, J. Gregory, R. Halsall, M.P. Jimack, P. Jovanovic, I.R. Kenyon, M. Landon, T.P. Shahand R. Stephens A279 (1989) 297
The fast strangeness trigger of the CPLEAR experiment, CPLEAR Collaboration, The, R. Rickenbach, F.

Montanet, G. Backenstoss, P. Carlson, M. Chardalas, T. Franke, K. Grönvik, A. Kerek, P. Kokkas, A. Onofre, C. Touramanis, G. Tranströmer and M. Wildi A279 (1989) 305

Section VIII. Particle identification

Status of the transition radiation detector for the DØ experiment, Detœuf, J.F., Y. Ducros, F. Feinstein, J.R. Hubbard, Ph. Mangeot, B. Masoulié, J. Teiger and A. Zylberstejn A279 (1989) 310
Compact fast RICH detector using a solid radiator: principle and first experimental results, Francke, T., F. Montanet, P. Pavlopoulos, C. Rivoiron, J.C. Santiard and M. Suffert A279 (1989) 317
A ring-imaging detector with liquid and solid radiators using a multistep parallel-plate avalanche chamber at atmospheric pressure with optical readout, Giomataris, Y., A. Gougas, W. Dominik, G. Charpak, F. Sauli and N. Zaganidis A279 (1989) 322
DØ muon system with proportional drift tube chambers, Brown, C., D. Eartly, D. Green, H. Haggerty, S. Hansen, H. Jöstlein, E. Malamud, P. Martin, N. Oshima, R. Yamada, T. Marshall, S. Kunori, M. Fortner, D. Hedin, D. Kaplan, T. Kramer, Yu. Antipov, B. Baldin, D. Denisov, S. Denisov, V. Glebov and N. Mokhov . A279 (1989) 331
Study of the time development of SQS pulses by the induced charge method, De Fraga, F.A.F., R. Ferreira Marques, J.C.L. De Carvalho and A.J.P.L. Policarpo A279 (1989) 339
Photomultiplier gain monitoring at the one percent level with a blue light pulser, Berger, J., M. Bermond, P. Besson, J. Favier, H. Pessard and M. Poulet A279 (1989) 343

Section IX. Data transmission and computer controlled systems

Optical data link for the U–TMP calorimeter of the UA1 experiment at CERN, Cennini, P., Z. Kulka and E. Petrolo A279 (1989) 350
Optical fibers and their applications, Trasatti, L. A279 (1989) 354
The computer controlled VME high voltage system for the D-Zero detector, Droege, T.F., M.F. Shea, R.W. Goodwin, M.E. Johnson, A.A. Jones, K. Roberts and S.J. Wimpenny A279 (1989) 359

Section X. Novel detectors and techniques

Performance of the scintillating fibre detector in the upgraded UA2 detector, Alitti, J., R.E. Ansorge, P. Bareyre, G. Blaylock, P. Bonamy, C.N. Booth, J. Crittenden, R.S. Dewolf, J. Dupont, K. Einsweiler, C. Engster, J-M. Gaillard, K. Hultqvist, M. Lefebvre, L. Linssen, J-P. Meyer, D.J. Munday, J.M. Pentney, J.G. Rushbrooke, A. Stirling, A.R. Weidberg, P.S. Wells, D.R. Wood, S.A. Wotton, T.O. White and H. Zaccone A279 (1989) 364
Experimental results on superheated superconducting granules at ^{3}He temperatures, Boniface, J., J. Ditta, L. Gonzalez-Mestres, L. Massonnet, D. Meylan and D. Perret-Gallix A279 (1989) 376
Detection of low energy solar neutrinos and galactic dark matter with crystal scintillators, Gonzalez-Mestres, L. and D. Perret-Gallix A279 (1989) 382
The silicon detectors in the UA2 experiment, Ansari, R., E. Beuville, K. Borer, P. Cenci, A.G. Clark, A. Federspiel, O. Gildemeister, C. Gössling, K. Hara, E.H.M. Heijne, P. Jarron, P. Lariccia, B. Lisowski, D.J. Munday, T. Pal, M.A. Parker, N. Redaelli, P. Scampoli, V. Simak, S.L. Singh, T. Valon-Hulth and P.S. Wells A279 (1989) 388
Performance of surface barrier silicon detectors with x, y readout, Apollinari, G., S. Belforte, F. Bosi, E. Focardi, R. Paoletti, G. Tonelli and F. Zetti A279 (1989) 396
Structural characterisation of bismuth germanate single crystals, Pizzini, S. and F. Allegretti A279 (1989) 402

A novel way of electron identification in calorimeters, Desalvo, R., F.G. Hartjes, A.M. Henriques, B. Ong, H.P. Paar, C. Scheel, P. Sonderegger, R. Wigmans and A. Zichichi A279 (1989) 467
Transverse profile of electron showers in a lead-glass calorimeter, DELPHI Forward ElectroMagnetic Group, The, F. Bianchi, E. Castelli, P. Checchia, R. Cirio, M.P. Clara, A. De Angelis, A. Ferrer, G. Galeazzi, D. Gamba, U. Gasparini, M. Innocente, L. Lanceri, I. Lippi, A. Lopez, J. Marco, C. Martinez, M. Mazzucato, E. Menichetti, M. Pegoraro, C. Pinori, P. Poropat, R. Ragazzon, G. Rinaudo, A. Romero, P. Ronchese, A. Ruiz, F. Scuri, A. Sebastia, M. Sessa, F. Simonetto, J. Velasco, L. Ventura, F. Waldner and G. Zumerle A279 (1989) 473
The mid-rapidity calorimeter for the relativistic heavy-ion experiment WA80 at CERN, Awes, T.C., C. Baktash, R.P. Cumby, R.L. Ferguson, A. Franz, T.A. Gabriel, H.A. Gustafsson, H.H. Gutbrod, J.W. Johnson, B.W. Kolb, I.Y. Lee, F.E. Obenshain, A. Oskarsson, I. Otterlund, S. Persson, F. Plasil, A.M. Poskanzer, H.G. Ritter, H.R.Schmidt, S.P. Sorensen and G.R. Young A279 (1989) 479
The zero-degree calorimeter for the relativistic heavy-ion experiment WA80 at CERN, Young, G.R., T.C. Awes, C. Baktash, R.P. Cumby, R.L. Ferguson, T.A. Gabriel, H.A. Gustafsson, H.H. Gutbrod, J.W. Johnson, I.Y. Lee, F.E. Obenshain, F. Plasil and S.P. Sorensen A279 (1989) 503
The DELPHI hadron calorimeter module characteristics in the saturated proportional mode of its detector operation, Filatova, N.A., Yu.N. Gotra, R.B. Kadyrov, V.N. Pozdnyakov, V.N. Ryzhov, A.B. Sadovsky, Tz.

Spassov, V.G. Timofeev, E.N. Tsyganov, I.A. Tyapkin, A.S. Vodopianov, N.I. Zimin and A.I. Zinchenko ... A279 (1989) 518
Limited streamer tubes for the OPAL hadron calorimeter, Artusi, G., L. Biffoni, S. Bimbi, P. Capiluppi, L. Degli Esposti, M.M. Deninno, F. Fabbri, M. Ferrari, G. Giacomelli, S. Marcellini, L. Marradi, F. Massera, A. Montanari, F. Odorici, O. Polgrossi, F. Rimondi, A.M. Rossi, G. Sanzani, S. Tuffanelli, R. Lorenzi, A.H. Ball, R.L. Bard, D. Bensen, C. Cates, J.D. Colmer, P. Floros, P.R. Goldey, R.G. Kellogg, J.R. Lee, W.W. Miller, D.T. Norkin, P. Rapp, P.S. Rozmarynowski, M. San Sebastian, J. Schultz, G.P. Siroli, A. Skuja, R.W. Springer, P.H. Steinberg, T. Zawistowski, G.T. Zorn, E. Jin and H. Wang ... A279 (1989) 523
Detection of transition radiation with plastic streamer tubes, Artamonov, A., V. Epstein, A. Ganginov, P. Gorbunov, E. Grigoriev, V. Jemanov, V. Khovansky, Yu. Kornelyuk, A. Maslennikov, A. Rozanov, M. Ryabinin, V. Zaitsev and S. Zeldovich ... A279 (1989) 531
Track finding with neural networks, Peterson, C. ... A279 (1989) 537
The Laser Beacon. A survey system for the torsion-free alignment and monitoring of the L3 Muon Spectrometer octants, Fabbretti, R., M. Fabre, H.P. Von Gunten, J. Haefliger, L. Li, P. Razis, B. Schafheitle, P.G. Seiler and G. Wemmers ... A280 (1989) 13
Study of the energy calibration of a high resolution electromagnetic calorimeter, Bakken, J.A., L. Barone, J.J. Blaising, T. Boehringer, B. Borgia, D. Boutigny, J.P. Burq, M. Chemarin, R. Clare, G. Coignet, P. Denes, F. De Notaristefani, M. Diemoz, C. Dionisi, H. Elmamouni, P. Extermann, S. Falciano, F. Ferroni, G. Gratta, B. Ille, P. Kaaret, Y. Karyotakis, P. Klok, P. Lebrun, P. Lecoq, P.J. Li, E. Longo, D. Luckey, L. Luminari, M. Maire, J.P. Martin, M. Micke, U. Micke, G. Morand, S. Morganti, J. Ossmann, P.A. Piroue, C. Rondinini, W. Ruckstuhl, G. Sauvage, T.P. Schaad, D. Schmitz, M. Schneegans, D.P. Stickland, R.L. Sumner, C. Taylor, E. Valente, M. Vivargent, L. Vuilleumier, W. Walk, R. Weil and T. Wynen ... A280 (1989) 25
Hadron and electron response of uranium/liquid argon calorimeter modules for the D0 detector, The D0 Calorimeter Group, M. Abolins, S.-C. Ahn, S.H. Aronson, R. Astur, J.F. Bartlett, G.C. Blazey, J. Borders, A.D. Bross, J.H. Christenson, W.E. Cooper, D. Cutts, M. Demarteau, P. Draper, S. Durston, D. Edmunds, J. Featherly, T. Ferbel, H.E. Fisk, G.E. Forden, P. Franzini, B.G. Gibbard, J. Gerecht, M.L. Good, H.A. Gordon, P.D. Grannis, J.A. Guida, J.M. Guida, W. Guryn, N.J. Hadley, H. Haggerty, S. Hagopian, T. Heuring, R. Hirosky, J.S. Hoftun, A.S. Ito, M.E. Johnson, A.M. Jonckheere, S. Kahn, D. Kewley, C. Klopfenstein, W. Kononenko, J. Kotcher, J. Kourlas, S. Libonate, J.T. Linnemann, S. Linn, F. Lobkowicz, R.J. Madaras, H.J. Martin, M. Marx, R. McCarthy, K.W. Merritt, P. Mooney, P. Nemethy, D. Nelić, K.K. Ng, D.P. Owen, M. Paterno, B. Pi, H. Piekarz, B.G. Pope, S. Protopopescu, R. Raja, K. Roberts, R.D. Schamberger, J. Sculli, W. Selove, R.P. Smith, A.L. Spadafora, M.L. Stevenson, M. Timko, E. Treadwell, P.M. Tuts, H.D. Wahl, H. Wang, H. Weerts, W.A. Wenzel, A.P. White, S.J. Wimpenny, W.J. Womersley, P. Yamin, S. Youssef and A. Zieminski ... A280 (1989) 36
A study of low hydrocarbon content gas mixtures for streamer tubes, Baldini-Celio, R., G. Bencivenni, F. Bossi, P. Campana, G. Capon, G. De Ninno, B. D'Ettorre Piazzoli, G. Felici, P. Laurelli, G. Mannocchi, F. Murtas, G.P. Murtas, G. Nicoletti, P. Picchi and H. Rigoni ... A280 (1989) 45

Instruments and Methods for Nuclear Spectroscopy

Production of high momentum negative pions by 800 MeV protons at 0° to 20°, Barlow, D.B., B.M.K. Nefkens, C.T. Pillai and K.W. Jones ... A271 (1988) 471
A new detector system for double beta decays, Alston-Garnjost, M., B.L. Dougherty, R.W. Kenney, J.M. Krivicich, A.R. Smith, R.D. Tripp, J.T. Walton, H.W. Nicholson, B.D. Dieterle and C.P. Leavitt ... A271 (1988) 475
Design and performance of an electron–positron pair detector, Galovich, C.S., S.S. Hanna and D.L. Clark ... A271 (1988) 483
A silicon counter array for ^{2}He detection, Motobayashi, T., S. Satoh, H. Murakami, H. Sakai and M. Ishihara ... A271 (1988) 491
A modular NaI(Tl) detector for intermediate energy photons, Bay, A., C. Joseph, J.F. Loude, J.P. Perroud, D. Ruegger, O. Schöri, D. Steiner and M.T. Tran ... A271 (1988) 497
Applications of large barium fluoride scintillators to in-beam gamma-ray spectroscopy, Karle, W., M. Knopp and K.-H. Speidel ... A271 (1988) 507
Theoretical resolving power of a radiofrequency mass spectrometer, Coc, A., R. Le Gac, M. De Saint Simon, C. Thibault and F. Touchard ... A271 (1988) 512
Tests of a magnetic emulsion spectrometer by high energy heavy ions, Hayasino, T., R. Ihara, H. Itoh, K. Kodama, N. Nakazawa, M. Ohashi and Y. Yamato ... A271 (1988) 518
A compact and gridless channel plate start detector, Nakagawa, T. and W. Bohne ... A271 (1988) 523
Spectroscopic study of short lived, high spin isomers through the recoil method, Lagrange, J.M., M. Pautrat, J.S. Dionisio, Ch. Vieu and J. Vanhorenbeeck ... A271 (1988) 527
Bremsstrahlung and its contribution to the gamma ray scattering spectra of solids, Alexandropoulos, N.G., T. Chatzigeogiou, G. Evangelakis, M.J. Cooper and S. Manninen ... A271 (1988) 543
Semi-monoenergetic neutron field for activation experiments up to 40 MeV, Uwamino, Y., T.-O. Ohkubo, A. Torii and T. Nakamura ... A271 (1988) 546

Performance of a symmetric BGO–NaI anti-Compton shield, Alba, R., G. Bellia and A. Del Zoppo A271 (1988) 553
The identification and rejection of energy-degraded events in gas ionization counters, Ophel, T.R., L.K. Fifield, W.N. Catford, N.A. Orr, C.L. Woods, A. Harding and G.P. Clarkson A272 (1988) 734
A high-performance polarimeter for medium-energy neutrons, Watson, J.W., M.R. Plumley, P.J. Pella, B.D. Anderson, A.R. Baldwin and R. Madey A272 (1988) 750
On the kinematics of crystal analyzer spectometers at pulsed neutron sources, Robinson, R.A. and R. Pynn A272 (1988) 758
Rise time spectroscopy of nuclear radiations in stilbene, Harihar, P., W.J. Stapor and A.B. Campbell A272 (1988) 763
Channel selection for in-beam γ-ray spectroscopy using a 4π phoswich array, Chapuran, T., D.P. Balamuth, J.W. Arrison and J. Görres A272 (1988) 767
A 4π double obelisk of position sensitive PPACs for new vistas in photofission experiments, Wilke, W., H. Brückel, R.D. Heil, U. Kneissl, H. Ströher and Th. Weber A272 (1988) 785
Precision energy determinations of gamma transitions from ^{56}Co decay, Wang, G., E.K. Warburton and D.E. Alburger A272 (1988) 791
Proportional counters as low energy photon detectors, Jahoda, K. and D. McCammon A272 (1988) 800
Construction and properties of a gamma-ray detector based on D(γ, n)H neutron counting, Seuthe, S., H.W. Becker, C. Rolfs, S. Schmidt, H.P. Trautvetter, R.W. Kavanagh and F.B. Waanders A272 (1988) 814
Performance of a 6 mm thick CdTe detector for 166 keV gamma rays, McKee, B.T.A., T. Goetz, T. Hazlett and L. Forkert A272 (1988) 825
Detection of low energy X-rays in coincidence measurements using the organic scintillator NE102A, Steinbauer, E. and O. Benka A272 (1988) 834
DSA measurement using heavy ion reactions on the small tandem accelerator (*Letter to the Editor*), Lu Xiting, Ban Yong, Liu Hongtao, Liu Jiarui, Zheng Zhongshuang and Zhang Qichu A272 (1988) 909
The multidetector neutron spin echo spectrometer IN11B, Sarkissian, B.V.B. A273 (1988) 185
Design and performance evaluation of a miniaturized particle desorption mass spectrometer, Davis, K.V., E.F. Da Silveira and E.A. Schweikert A273 (1988) 203
A large high-resolution sodium iodide spectrometer, Håkansson, A., J. Blomgren, S. Crona, A. Likar, A. Lindholm, L. Nilsson, N. Olsson and R. Zorro A273 (1988) 211
Simulation of complex detection systems in neutrinoless double beta decay experiments, Larrea, A., A. Morales, J. Morales, R. Nuñez-Lagos, J. Puimedon and J.A. Villar A273 (1988) 218
A time projection chamber for detection of double beta decay, Elliott, S.R., A.A. Hahn and M.K. Moe A273 (1988) 226
ERICIUS – A plastic phoswich detector array for on-line identification of evaporated protons and α-particles following HI-fusion reactions, Lidén, F., A. Johnson, A. Kerek, E. Dafni and M. Sidi A273 (1988) 240
Weakly ionizing charged particle detectors with high efficiency using transitory electronic secondary emission of porous CsI, Chianelli, C., P. Ageron, J.P. Bouvet, M. Karolak, S. Martin and J.P. Robert A273 (1988) 245
Response function of a beta detector telescope consisting of HPGe and scintillator, Tengblad, O. and R. Von Dincklage A273 (1988) 257
A focal plane detector for reactions with medium weight projectiles, Rehm, K.E. and F.L.H. Wolfs A273 (1988) 262
Two-dimensional neutron detector based on a position-sensitive photomultiplier, Kurz, R., R. Reinartz, S. Widdau, J. Schelten, A. Scholz and W. Schäfer A273 (1988) 273
CCD camera system for use with a streamer chamber, Angius, S.A., R. Au, G.C. Crawley, C. Djalali, R. Fox, M. Maier, C.A. Ogilvie, A. Vander Molen, G.D. Westfall and R.S. Tickle A273 (1988) 283
Design, construction and performance of a liquid xenon and liquid argon ionization chamber, Imel, D.A. and J. Thomas A273 (1988) 291
Position sensitive low pressure multistep avalanche chambers for measuring neutron induced light reaction products, Michel, P., J. Mösner, G. Schmidt, K. Möller and J. Hutsch A273 (1988) 299
Pulse shape discrimination with a 100 MHz flash ADC system, Aleksan, R., J. Bouchez, M. Boussicut, T. Desanlis, D. Jourde, J. Mullié, F. Pierre, L. Poinsignon, R. Praca, G. Roussel, J.F. Thomas, J. Collot, A. Stutz and E. Kajfasz A273 (1988) 303
Precision measurements of K X- and gamma-ray intensities in ^{103}Ru, ^{131}Ba, ^{134}Cs and ^{166m}Ho decays, Chand, B., J. Goswamy, D. Mehta, S. Singh, M.L. Garg, N. Singh and P.N. Trehan A273 (1988) 310
A new multiwire proportional chamber with fast single strip readout and individual analog to digital conversion (*Letter to the Editor*), Lindner, H., H. Angerer and G. Hlawatsch A273 (1988) 444
Vertically bent single crystal silicon wafers as a neutron monochromator (*Letter to the Editor*), Vaknin, D., D.S. Coburn and A.S. Arrott A273 (1988) 447
Properties of MOS sensors for application in neutron field monitoring, Streubel, G., B. Dörschel, T. Hanisch, J. Reinhard and K. Schoop A274 (1989) 194
Measurement of fast neutrons in the Gran Sasso Laboratory using a ^{6}Li doped liquid scintiliator, Aleksan, R., J. Bouchez, M. Cribier, E. Kajfasz, B. Pichard, F. Pierre, J. Poinsignon, M. Spiro and J.F. Thomas A274 (1989) 203
New instrumental effects in fast neutron polarization measurements, Holslin, D., J. McAnich, J. Sromicki, P.A. Quin and W. Haeberli A274 (1989) 207
New developments of small angle neutron scattering instruments with focussing, Alefeld, B., D. Schwahn and T. Springer A274 (1989) 210

The neutron detection efficiency of NE213 detectors measured by means of a ^{252}Cf source, Cub, J., E. Finckh, K. Gebhardt, K. Geissdörfer, R. Lin, J. Strate and H. Klein A274 (1989) 217
A LED monitoring system for pulse height and time measurement with scintillation counters, Anton, G., K. Büchler and M. Kückes A274 (1989) 222
A t_{20} tensor polarimeter, Shin, Y.M., N.R. Stevenson, L.O. Dallin, K. Itoh, G. Retzlaff, G.D. Wait, D.R. Gill and D.F. Ottewell A274 (1989) 227
A new analog detection system with target-imaging capability for μSR measurements in a pulsed muon beam, Kawashima, Y., Y. Watanabe and T. Yamazaki A274 (1989) 241
An ion-implanted semiconductor strip detector for low energy pion-production experiments, Richter, A.W., B. Alberti, D. Eyl, G. Köbschall, A. Liesenfeld, K. Röhrich, Ch. Schmitt and V.H. Walther A274 (1989) 249
A large dynamic range detector for measurement of neutron-induced charged particle spectra down to zero degrees, Ford, T.D., F.P. Brady, C.M. Castaneda, J.R. Drummond, B. McEachern, J.L. Romero and D.S. Sorenson A274 (1989) 253
Selective mass separation of light lanthanoids by means of ionization of their monoxides, Ichikawa, S., T. Sekine, H. Iimura, M. Oshima and N. Takahashi A274 (1989) 259
A simple multidetector system for intermediate mass fragments, Łukasik, J., S. Micek, Z. Sosin, A. Wieloch and K. Grotowski A274 (1989) 265
Alpha-particle spectrum of ^{219}Rn and its daughters from pitchblende samples using silicon surface-barrier detectors (*Letter to the Editor*), Iturbe, J.T. A274 (1989) 404
Very low energy conversion electron detection system at the ISOCELE on-line separator, Orsay, The ISOCELE Collaboration, P. Kilcher, J. Sauvage, A. Wojtasiewicz, J. Munsch, J. Obert, A. Caruette, A. Ferro, G. Boissier, J. Fournet-Fayas, M. Ducourtieux, G. Landois, R. Sellem and D. Sznajderman A274 (1989) 485
Neutron detection efficiency for NE213 and BC501 scintillators at energies between 25 and 200 MeV, Byrd, R.C. and W.C. Sailor A274 (1989) 494
Response of BaF_2, CsI(Tl) and Pb-glass detectors to neutrons below 22 MeV, Matulewicz, T., E. Grosse, H. Emling, H. Grein, R. Kulessa, F.M. Baumann, G. Domogala and H. Freiesleben A274 (1989) 501
Feasibility study for an investigation of the neutrino rest mass through high resolution spectroscopy of the external bremsstrahlung from tritium decay, Borchert, G.L., D. Gotta, H.R. Koch, R. Salziger, H.J. Probst, O.W.B. Schult and R. Lässer A274 (1989) 507
NMR measurements on the TRIUMF polarized deuterium target, Wait, G.D., P.P.J. Delheij and D.C. Healey . A274 (1989) 515
Influence of energy summing of α-particles and conversion electrons on the shapes of α-spectra in the region of the heaviest nuclei, Hessberger, F.P., S. Hofmann, G. Münzenberg, K.-H. Schmidt, P. Armbruster and R. Hingmann A274 (1989) 522
The Vassilissa facility for electrostatic separation and study of complete fusion reaction products, Yeremin, A.V., A.N. Andreyev, D.D. Bogdanov, V.I. Chepigin, V.A. Gorshkov, A.I. Ivanenko, A.P. Kabachenko, L.A. Rubinskaya, E.M. Smirnova, S.V. Stepantsov, E.N. Voronkov and G.M. Ter-Akopian A274 (1989) 528
Acoustic detection of single particles, Cabrera, B., J. Martoff and B. Neuhauser A275 (1989) 97
A position sensitive high resolution hodoscope for particle unstable intermediate mass fragments, Murakami, T., T.K. Nayak, W.G. Lynch, K. Swartz, Z. Chen, D.J. Fields, C.K. Gelbke, Y.D. Kim, M.R. Maier, J. Pochodzalla, M.B. Tsang, H.M. Xu and F. Zhu A275 (1989) 112
The direct determination of the masses of unstable atoms with the Chalk River on-line isotope seperator, Sharma, K.S., H. Schmeing, H.C. Evans, E. Hagberg, J.C. Hardy and V.T. Koslowsky A275 (1989) 123
EMRIC: a new setup for very small angle correlation measurements, Merchez, F., S. Kox, C. Perrin, J. Mistretta, J.C. Gondrand, L.N. Imouk, P. Gretillat and E. Schwarz A275 (1989) 133
An indium phosphide solid state detector. A possible low energy gamma and neutrino detector, Suzuki, Y., Y. Fukuda, Y. Nagashima and H. Kan A275 (1989) 142
A microprocessor-controlled device for isotope-ratio measurements by mass spectrometry (*Letter to the Editor*), Bancroft, P.G. and P.M. Chalk A275 (1989) 192
Chamber modification to accommodate presence of an intense beam, Ling, A. and C.A. Whitten Jr A275 (1989) 277
Design of large counters for medium energy neutrons, Wightman, J.A., S.D. Adrian, D.B. Barlow, A.D. Eichon, B.M.K. Nefkens and C. Pillai A275 (1989) 281
Calibration of neutron counters from 83 to 290 MeV, Kessler, R.S., S.D. Adrian, D.B. Barlow, P. DiBernardo, A.D. Eichon, B.M.K. Nefkens, C. Pillai, J.W. Price, J.A. Wightman, W.J. Briscoe, L.H. Kramer, M.F. Taragin and D.F. Ottewell A275 (1989) 285
Prototype of a zero-field neutron spin-echo spectrometer, Dubbers, D., P. El-Muzeini, M. Kessler and J. Last .. A275 (1989) 294
Improved transmission calculations for mini-orange magnetic spectrometers, Dresel, Th., Th.W. Elze and R. Peckhaus A275 (1989) 301
New two-dimensional position sensitive silicon detector with good position linearity and resolution, Yanagimachi, T., T. Doke, N. Hasebe, T. Imai, T. Kashiwagi, J. Kikuchi, T. Kohno, W.P. Liu, K. Munakata, T. Motobayashi, H. Murakami, K. Nagata, A. Nakamoto and H. Yamaguchi A275 (1989) 307
Applications of complete reconstruction of multi-particle final states in fusion–evaporation reactions using a 4π detector, Balamuth, D.P., T. Chapuran and J.W. Arrison A275 (1989) 315

A pulse shape discriminator with high precision of neutron and gamma ray selection at high counting rate, Białkowski, J., M. Moszyński and D. Wolski ... A275 (1989) 322
A preamplifier for BGO–NaI anti-Compton shields, Boiano, C., G. Lo Bianco and P. Sala ... A275 (1989) 329
Use of DCO ratios for spin determination in γ–γ coincidence measurements, Krämer-Flecken, A., T. Morek, R.M. Lieder, W. Gast, G. Hebbinghaus, H.M. Jäger and W. Urban ... A275 (1989) 333
The QQDS magnetic spectrograph "Little John" at the Karlsruhe cyclotron. I. Design and construction, Gils, H.J., J. Buschmann, S. Zagromski, J. Krisch and H. Rebel ... A276 (1989) 151
The QQDS magnetic spectrograph "Little John" at the Karlsruhe cyclotron. II. Experimental procedures and performance, Gils, H.J., H. Jelitto, H. Schlösser, S. Zagromski, J. Buschmann, W. Eyrich, A. Hofmann, J. Kiener, A. Lehmann and H. Rebel ... A276 (1989) 169
Fast neutron radiography tests at the Yayoi-reactor, University of Tokyo, Ikeda, Y., K. Yoshii, S. Fujine, K. Ohkubo, H. Kobayashi, G. Matsumoto, K. Yoneda, T. Matsumoto, O. Aizawa, T. Niwa, T. Tsuruta, M. Nakazawa, A. Tsuruno and Y. Horiguchi ... A276 (1989) 183
Detection efficiency loss in a position sensitive scintillator hodoscope neutron detector, Pantaleo, A., L. Fiore, G. Guarino, V. Paticchio, G. D'Erasmo and E.M. Fiore ... A276 (1989) 191
A detection system for the study of alpha and proton radioactivity on the Daresbury recoil mass separator, Woods, P.J., S.J. Bennett, M. Freer, B.R. Fulton, R.D. Page, K.A. Connell, R.A. Cunningham, J. Groves, J. Simpson, A.N. James, M.A.C. Hotchkis and W.D.M. Rae ... A276 (1989) 195
Accurate measurement of the relative Si(Li) detector efficiency for X-ray energies below 5 keV, Orlić, I., W.J.M. Lenglet and R.D. Vis ... A276 (1989) 202
On the use of thin ion implanted Si detectors in heavy ion experiments, Lavergne-Gosselin, L., L. Stab, M.O. Lampert, H.-Å. Gustafsson, B. Jakobsson, A. Kristiansson, A. Oskarsson, M. Westenius, A.J. Kordyasz, K. Aleklett, L. Westerberg, M. Rydehell and O. Tengblad ... A276 (1989) 210
Some practical aspects of gamma-ray spectroscopy of voluminous cylindrical sources with germanium detectors, Vesić, D. and I.V. Aničin ... A276 (1989) 216
A Compton polarimeter constructed with a large Si(Li) scatterer and two Ge analysers, Ohya, S., H. Miura, K. Nishimura, N. Mutsuro and T. Aoki ... A276 (1989) 223
A fast in-beam recoil catcher wheel and the observation of beta-delayed two-proton emission from ^{31}Ar, Reiff, J.E., M.A.C. Hotchkis, D.M. Moltz, T.F. Lang, J.D. Robertson and J. Cerny ... A276 (1989) 228
Detection of low energy pions at a tagged photon beam, Gothe, R.W., R. Beck, D. Irmscher, J. Goebel, B. Schoch, J.M. Vogt, K. Min, L.Y. Murphy, K. So, E.J. Winhold, M. Yamazaki, P.F. Yergin, S.J. Hall, J.D. Kellie, I.J.D. MacGregor and D. Branford ... A276 (1989) 233
Reflectors for canning a BaF_2 crystal, Sinha, B.K. and R. Bhattacharya ... A276 (1989) 237
Real time digital processing of Bragg ionization chamber signals, Ortlepp, H.-G. and A. Romaguera ... A276 (1989) 500
SPEG: an energy loss spectrometer for GANIL, Bianchi, L., B. Fernandez, J. Gastebois, A. Gillibert, W. Mittig and J. Barrette ... A276 (1989) 509
Neutron Larmor precession transmission experiments, Kraan, W.H., J.B. Van Tricht and M.Th. Rekveldt ... A276 (1989) 521
Neutron production from thick-target (α, n) reactions, Heaton, R., H. Lee, P. Skensved and B.C. Robertson ... A276 (1989) 529
The escape of recoils from neutron-bombarded foils, Kolkowski, P. and T.B. Ryves ... A276 (1989) 539
List mode acquisition method for time-differential perturbed angular correlations, Uehara, S.-I., Y. Kawase, S. Nasu and F.E. Fujita ... A276 (1989) 543
Gamma-ray response functions for scintillation and semiconductor detectors, Mitchell, D.J., H.M. Sanger and K.W. Marlow ... A276 (1989) 547
Comparison of different methods for the determination of fission fragment velocity, mass, and energy distributions for ^{232}Th(n, f), Brinkmann, K.-Th., J. Kiesewetter, F.M. Baumann, H. Freiesleben, H.J. Lütke-Stetzkamp, H.J. Paul, H.G. Schwanke and H. Sohlbach ... A276 (1989) 557
Performances of a detector for high precision monitoring of a low energy γ-ray beam (*Letter to the Editor*), Belli, P. and A. Incicchitti ... A276 (1989) 656
A barium fluoride scintillator working with p–p′ diphenylstilbene wavelength shifter (*Letter to the Editor*), Yanovsky, V. and P. Kozma ... A276 (1989) 659
A method for picosecond lifetime measurements for neutron-rich nuclei. (2) Timing study with scintillation counters, Moszyński, M. and H. Mach ... A277 (1989) 407
Heavy ion separation with a gas-filled magnetic spectrograph, Paul, M., B.G. Glagola, W. Henning, J.G. Keller, W. Kutschera, Z. Liu, K.E. Rehm, B. Schneck and R.H. Siemssen ... A277 (1989) 418
Design of the Bevalac heavy ion spectrometer system and its performance in studying ^{12}C fragmentation, Engelage, J., M.E. Baumgartner, E. Beleal, B.L. Berman, F. Bieser, F.P. Brady, M. Bronson, J.B. Carroll, H.J. Crawford, I. Flores, D.E. Greiner, L. Greiner, O. Hashimoto, G. Igo, S. Kadota, P.N. Kirk, P.J. Lindstrom, C. McParland, S. Nagamiya, D.L. Olson, J. Porter, J.L. Romero, C.L. Ruiz, T.J.M. Symons, I. Tanihata, R. Wada, M.L. Webb, J. Yamada and H. Yee ... A277 (1989) 431
A new approach to the kinematic coincidence method in heavy ion reactions, Casini, G., P.R. Maurenzig, A. Olmi and A.A. Stefanini ... A277 (1989) 445

An associated particle technique for absolute neutron counting efficiency determination, Guillaume, G., A. Huck, P. Wagner, P. Baumann and G. Costa A277 (1989) 458
Thermal neutron detection and identification in a large volume with a new lithium-6 loaded liquid scintillator, Ait-Boubker, S., M. Avenier, G. Bagieu, J.F. Cavaignac, J. Collot, J. Favier, E. Kajfasz, D.H. Koang, A. Stutz and B. Vignon A277 (1989) 461
Photofission cross sections of ^{233}U and ^{239}Pu near threshold induced by gamma rays from thermal neutron capture, De Moraes, M.A.P.V. and M.T.F. Cesar A277 (1989) 467
Møller scattering and the measurement of beta-ray longitudinal polarization, Kliwer, J. A277 (1989) 473
Evaluation of passivated ion implanted planar silicon detectors for the spectroscopy and assay of low energy electrons, Batten, J.R. A277 (1989) 478
High pressure Mössbauer spectrometer for the high-resolution 93.3 keV resonance in ^{67}Zn, Adlassnig, W., W. Potzel, J. Moser, C. Schäfer, M. Steiner and G.M. Kalvius A277 (1989) 485
A charged particle multiplicity filter for nuclidic identification of the specific gamma rays, Mitarai, S., K. Setoguchi, T. Maeda, Y. Haruta, H. Tomura, B.J. Min, K. Heiguchi, S. Suematsu, Y. Ishikawa, T. Kuroyanagi and K. Toyoshima A277 (1989) 491
The double-torus ionization chamber DIOGENES for the investigation of charged particle associated nuclear fission, Heeg, P., J. Pannicke, M. Mutterer, P. Schall, J.P. Theobald, K. Weingärtner, K.F. Hoffmann, K. Scheele, P. Zöller, G. Barreau, B. Leroux and F. Gönnenwein A278 (1989) 452
An axial ionization chamber for heavy ion identification, Bandyopadhyaya, S.K., S.K. Basu, S. Bhattacharya, R.K. Bhowmik, A. Chakrabarti, S.K. Datta, G.S.N. Murthy and Y.P. Viyogi A278 (1989) 467
Relative neutron detector efficiency and response function measurements with a ^{252}Cf neutron source, Gul, K., A.A. Naqvi and H.A. Al-Juwair A278 (1989) 470
Absolute determination of T–d neutron yields by the associated particle method, Shirato, S., S. Shibuya, Y. Ando, T. Kokubu and K. Hata A278 (1989) 477
Neutron-capture gamma rays below 40 keV, Durner, P., T. Von Egidy and F.J. Hartmann A278 (1989) 484
Preparation of thin ^{226}Ra sources by the electro-spray technique (*Letter to the Editor*), Hernegger, F. and A. Chalupka A278 (1989) 611
Using the combination CsI(Tl) and photodiode for identification and energy measurement of light particles (*Letter to the Editor*), Guinet, D., B. Chambon, B. Cheynis, A. Demeyer, D. Drain, X.C. Hu, C. Pastor, L. Vagneron, K. Zaid, A. Giorni, D. Heuer, A. Lleres and J.B. Viano A278 (1989) 614
A vibrating crystal spectrometer for the study of small angle neutron scattering (*Letter to the Editor*), Michalec, R., J. Vávra and B. Michalcová A278 (1989) 617
High resolution measurement of protons emitted from medium-energy neutron induced reactions by means of a magnetic spectrograph, Koori, N., M. Hyakutake, M. Matoba, H. Ijiri, Y. Fujita, Y. Uozumi, S. Shirato, T. Motobayashi, T. Ohsawa and K. Sagara A278 (1989) 737
The particle–particle correlation technique with a broad range magnetic spectrograph and its applications, Utsunomiya, H., Y.-W. Lui and R.P. Schmitt A278 (1989) 744
Neutron spectroscopy in the 1–30 keV energy range, Miller, W.H. A279 (1989) 546
Micromachining of silicon for thermal and position-sensitive nuclear detector applications, Bäcklund, Y., N.J. Coron, P. Delsing, B. Jonson, M. Lindroos, G. Nyman, H. Ravn, K. Riisager and H.H. Stroke A279 (1989) 555
Energy resolution for alpha particles in liquid argon doped with allene, Masuda, K., T. Doke, A. Hitachi, H. Ichinose, J. Kikuchi, E. Shibamura and T. Takahashi A279 (1989) 560
A BaF_2–BGO detector for high-energy gamma rays (*Letter to the Editor*), Bargholtz, Chr., B. Ritzén and P.-E. Tegnér A279 (1989) 668
A method for picosecond lifetime measurements for neutron-rich nuclei. (1) Outline of the method, Mach, H., R.L. Gill and M. Moszyński A280 (1989) 49
Limitation of the Compton suppression in Ge–BGO Compton suppression spectrometers, Moszyński, M., J.H. Bjerregard, J.J. Gaardhøje, B. Herskind, P. Knudsen and G. Sletten A280 (1989) 73
Optical fibre readout and performance of small scintillating crystals for a fine-grained gamma detector, Rushbrooke, J.G. and R.E. Ansorge A280 (1989) 83
Preliminary one-dimensional neutronics scoping study for a californium-252 cold neutron source moderating device, Henderson, D.L. and R.G. Alsmiller Jr A280 (1989) 91
Detection of recoil electrons in triplet photoproduction (*Letter to the Editor*), Endo, I., S. Kasai, M. Harada, K. Niki, Y. Sumi, M. Tobiyama, M. Mutou, H. Tsujikawa, K. Watanabe, K. Yoshida and K. Baba A280 (1989) 144

Computer Automated Measurement and Control

The data acquisition system for the crystal ball at LNS, Finocchiaro, P., C. Maiolino and P. Piattelli A271 (1988) 557
ENDAT: A general purpose data acquisition trigger, Finocchiaro, P., A. Anzalone and C. Maiolino A271 (1988) 563
A simple CAMAC based data acquisition and reduction system (DARS) (*Letter to the Editor*), Ribanský, I., M. Morháč and I. Turzo A271 (1988) 704

The data acquisition system for the Clue cosmic ray experiment, Budinich, M., R. Crevatin and P. Giannetti ... A273 (1988) 315
The 370/E IBM emulator as an add-on processor to a DEC VAX host, Rost, M. and R. Uhlenberg ... A273 (1988) 319
Precision method for automatic calibration and digital correction of high-accuracy digital-to-analog converters in the experiment, Popov, V.P. ... A274 (1989) 269
A versatile compact multiparameter data acquisition system, Bassato, G., Y.N. Lou, G. Maron, G. Prete, A. Tivelli, M. Morando, S. Ballarin and A. Gervasoni ... A275 (1989) 340
A fast hardware trigger for charged particles in multilayer tracking devices, Kinoshita, K. ... A276 (1989) 242
FAMA/FAMULUS: programs for the fast calculation of two-dimensional distributions of magnetic and electric fields, Nestle, H. and H. Wollnik ... A276 (1989) 568
A programmable Gaussian random pulse generator for automated performance measurements, Abdel-Aal, R.E. A276 (1989) 573
An interconnect bus to link VME multiprocessor systems and host mainframes, Pietarinen, E., A. Miotto, D. Pascoli and P. Rossi ... A276 (1989) 577
The ECLine-driver: a flexible, 20 MHz, 256 words ECLine generator, Chollet, F., A. Degré, J.C. Lacotte and J. Lecoq ... A277 (1989) 497
The control system of the photon factory storage ring, Pak, C.O. ... A277 (1989) 501
Nuclear spectroscopy data sorting with parallel processors, Gascon, J., P. Taras, F. Banville, M. Beaulieu, R. Bornais, S. Flibotte and B. Lorazo ... A278 (1989) 491

Nuclear Electronics

Low noise germanium radial drift detector, Luke, P.N. ... A271 (1988) 567
A power supply with temperature and N_2 level test controlled by a PC IBM-XT for a HP-Ge detector, Manfredotti, C., G. Gervino, E. Bagnolatti, U. Nastasi, R. Marchisio, L. Brunetti and E. Monticone ... A271 (1988) 571
Effect of primary ionization in amorphous silicon detectors, Equer, B. and A. Karar ... A271 (1988) 574
The influence of fast neutron irradiation on the noise performance of silicon surface-barrier detectors, Dabrowski, W. and K. Korbel ... A271 (1988) 585
A study of the effect of methane and carbon dioxide concentration on gas amplification in argon based gas mixtures, Armitage, J.C., S.P. Beingessner, R.K. Carnegie, E.F. Ritchie and J. Waterhouse ... A271 (1988) 588
BIG – A binary generator for testing digital devices, Annunziata, M., W. Bragagnini, P. Guazzoni, G. Sechi, G. Taiocchi and L. Zetta ... A271 (1988) 597
A digital divider with extension bits for position-sensitive detectors, Koike, M. and K.-I. Hasegawa ... A272 (1988) 840
Detection of $LaF_3:Nd^{3+}$ scintillation light in a photosensitive multiwire chamber (*Letter to the Editor*), Schotanus, P., C.W.E. Van Eijk and R.W. Hollander ... A272 (1988) 913
The effect of Pb^{2+} contamination on BaF_2 scintillation characteristics (*Letter to the Editor*), Schotanus, P., C.W.E. Van Eijk and R.W. Hollander ... A272 (1988) 917
Time development of the asymmetry in the charges induced by SQS (*Letter to the Editor*), De Fraga, F.A.F., R. Ferreira Marques, J.C.L. De Carvalho and A.J.P.L. Policarpo ... A272 (1988) 921
A hybrid charge sensitive amplifier for high capacitance detectors, Bacci, C., S. Centro, M. De Giorgi and R. Martinelli ... A273 (1988) 321
Quench gases for xenon- (and krypton-) filled proportional counters, Ramsey, B.D. and P.C. Agrawal ... A273 (1988) 326
Use of propane as a quench gas in argon-filled proportional counters and comparison with other quench gases, Agrawal, P.C. and B.D. Ramsey ... A273 (1988) 331

Proceedings of the London Conference on Position Sensitive Detectors University College London, UK, September 7–11, 1987

Section I. Overviews

Positron emission tomography, Jones, T. ... A273 (1988) 455
Position-sensitive detectors in condensed matter studies, Arndt, U.W. ... A273 (1988) 459
The sources of inspiration in research on position-sensitive detectors, Charpak, G. ... A273 (1988) 463

Section II. New developments in gaseous detectors

A RICH detector with a sodium fluoride radiator: π/K identification up to 3 GeV/c, Arnold, R., J.L. Guyonnet, Y. Giomataris, P. Pétroff, J. Séguinot, J. Tocqueville and T. Ypsilantis ... A273 (1988) 466
Right–left ambiguity resolution in a time expansion chamber, Böhm, A., V. Commichau, H. Fesefeldt, P. Göttlicher, T. Hamacher, K. Hangarter, U. Herten, C. Neyer, P. Schmitz, R. Schulte, T. Spickermann, M. Tonutti, M. Bourquin, M. Nusbaumer, J. Perrier, N. Produit, K. Deiters, R. Leiste, W. Lohmann, W.-D. Nowak, U. Röser, M. Sachwitz, H. Anderhub, M. Dhina, I. Dimitrović, J. Fehlmann, H.P. v. Gunten, H. Hofer, R. Holzreuter, X. Lue, M. Macdermott, A. Pichler, M. Pohl, D. Ren, G. Viertel and L. Zehnder ... A273 (1988) 471

Measurements of the anisotropy ratio between longitudinal and transverse diffusion in argon based gas mixtures, Wong, L., J. Armitage and J. Waterhouse A273 (1988) 476
High precision bidimensional readout for LST, Gasparini, F., R. Carlin, G. Carosi, G. D'Agostini, M. De Giorgi, U. Dosselli, M. Gaspero, S. Limentani, G. Marini, M. Morandin, A. Nigro, M. Posocco, L. Stanco, R. Stroili and C. Voci A273 (1988) 485
Electron motion in counting gases – New answers and new questions, Schmidt, B. and S. Polenz A273 (1988) 488
Alignment in magnetic field, charge transmission and drift velocity monitoring for the TPC-like electromagnetic calorimeter of the DELPHI experiment at LEP, Sannino, M. and E. Durante A273 (1988) 494
The macrochannel plate: a suitable detector for low energy γ-rays and high energy electromagnetic showers, Del Guerra, A., M. Conti, G. Gorini, P. Maiano, C. Rizzo and V. Perez-Mendez A273 (1988) 500
The performance of the Penning gas imager, Lapington, J.S., D.M. Walton and H.E. Schwarz A273 (1988) 506
An X-ray imaging gas scintillation spectrometer, Simons, D.G., P.A.J. De Korte and M. Heppener A273 (1988) 512
Charge distributions in parallel plate avalanche chambers, Mathieson, E. and G.C. Smith A273 (1988) 518
Position sensing with a gas counter in the SQS transition region, Ohgaki, H., S. Uehara, T. Fujiki, H. Ijiri, T. Sakae, N. Koori and M. Matoba A273 (1988) 522
Developments in plastic wire chambers operated in the limited streamer mode (LSM detectors), Laakso, M., K. Kurvinen and R. Orava A273 (1988) 525
High accuracy measurements of drift time in the streamer mode, Biagi, S.F. and P.S.L. Booth A273 (1988) 530
Accurate solution of the Boltzmann transport equation, Biagi, S.F. A273 (1988) 533
Double-grid avalanche counter with large dynamic range, Seidel, W., H.-G. Ortlepp, F. Stary and H. Sodan ... A273 (1988) 536
Reduction of the electronics of a 1D position sensitive detector, Duijn, J.H., C.W.E. Van Eijk, R.W. Hollander and G.W. Sloof A273 (1988) 541
A gas-scintillation proportional detector for exotic-atom X-rays with charged particle rejection, Okx, W.J.C., C.W.E. Van Eijk, R.W. Hollander and A. Zoutendijk A273 (1988) 544
A novel threshold Cherenkov detector, Okx, W.J.C., C.W.E. Van Eijk, M. Looman and N.W. Tanner A273 (1988) 548
Performance improvement of streamer drift chambers by the addition of organic vapours to the gas mixture, Daubie, E., F. Defontaines, F. Grard, J. Kesteman, M. Chevry, O. Pingot, C. Poiret and W. Van Doninck .. A273 (1988) 553

Section III. New developments in solid state detectors

Silicon drift chambers, Hall, G. A273 (1988) 559
A CMOS charge sensitive amplifier for silicon strip detectors: design criteria and test results, Olsen, A., T. Buran, K. Eilertsen, G. Maehlum, A. Read, B. Skaali and I. Spydevold A273 (1988) 565
A 3 × 3 silicon drift chamber array for application in an electronic collimator, Kuykens, H.J.P. and S.A. Audet . A273 (1988) 570
Superconducting tunneling junctions as X-ray detectors and their possible applications in astrophysics, Twerenbold, D. A273 (1988) 575
SOFI: a scintillating optical fiber imager, Leblanc, M., C. Raymond, H. Tricoire and L. Valentin A273 (1988) 583
New structures for position sensitive semiconductor detectors, Kemmer, J. and G. Lutz A273 (1988) 588
Soft X-ray damage in CCD detectors, Magorrian, B.G. and N.M. Allinson A273 (1988) 599
The implementation and performance of a 1 m^2 silicon hodoscope array in UA2 and proposed construction of a second array, Borer, K., A.G. Clark, O. Gildemeister, C. Gössling, E.H.M. Heijne, P. Jarron, B. Lisowski, T. Pal, M.A. Parker and N. Redaelli A273 (1988) 605
Detection of minimum-ionizing particles in hydrogenated amorphous silicon, Kaplan, S.N., I. Fujieda, V. Perez-Mendez, S. Qureshi, W. Ward and R.A. Street A273 (1988) 611
The silicon micropattern detector: a dream?, Heijne, E.H.M., P. Jarron, A. Olsen and N. Redaelli A273 (1988) 615
Hybrid linear array detectors for synchrotron radiation applications, Allinson, N.M. and G.N. Greaves A273 (1988) 620
New concepts for integrated solid state detector electronics, Vanstraelen, G., I. Debusschere, C. Claeys and G. Declerck A273 (1988) 625
A low power CMOS VLSI multiplexed amplifier for silicon strip detectors, Allport, P.P., P. Seller and M. Tyndel A273 (1988) 630
Electron detection by means of silicon solid state imagers, Debusschere, I., E. Bronckaers, C. Claeys and G. Declerck A273 (1988) 636
Amorphous silicon position-sensitive detector, Mochiki, K.-I., K.-I. Hasegawa and S. Namatame A273 (1988) 640
The new scintillation material CsI and its application to position sensitive detectors, Kubota, S., H. Murakami, J.-Z. Ruan(Gen), N. Iwasa, S. Sakuragi and S. Hashimoto A273 (1988) 645

Section IV. New developments in liquid detectors

A liquid argon TPC, Giorginis, G., D. Mann, K. Ottmann, S. Wölfle, H. Gemmeke, R. Maschuw and B. Zeitnitz A273 (1988) 650
Purity in room temperature liquid ionization chambers, Ochsenbein, S., D. Schinzel, A. Gonidec and W.F. Schmidt A273 (1988) 654
Some new ideas in liquid detectors, Anderson, D.F. A273 (1988) 657

Section V. Applications in high energy astrophysics

Spatial resolution limitations of microchannel plate/conductive charge division readout devices, Lapington, J.S., R. Kessel and D.M. Walton ... A273 (1988) 663
Imaging microchannel plate detectors for X-ray and XUV astronomy, Fraser, G.W., M.A. Barstow and J.F. Pearson ... A273 (1988) 667
A triple phoswich detector for hard X-ray astronomy, Zhang, S.N. and D. Ramsden ... A273 (1988) 673
Development of double side readout silicon strip detectors, Batignani, G., L. Bosisio, E. Focardi, F. Forti, M.A. Giorgi, G. Tonelli and G. Triggiani ... A273 (1988) 677
The spacelab 2 XRT xenon-filled position-sensitive proportional counters, Skinner, G.K., P.K.S. Harper, J.R.H. Herring and B.D. Ramsey ... A273 (1988) 682
A large area position sensitive X-ray detector for astrophysical observations, Mels, W.A., P. Lowes, H.B. Buurmans, A.C. Brinkman, A.P. Naber, A. Rook and W. Zandee ... A273 (1988) 689
Event recognition techniques in CCD X-ray detectors for astronomy, Lumb, D.H. and A.D. Holland ... A273 (1988) 696
Silicon drift chambers for X-ray astronomy, Sumner, T.J., G.K. Rochester and G. Hall ... A273 (1988) 701
A position sensitive detector using a NaI(Tl)/photomultiplier tube combination for the energy range 200 keV to 10 MeV, Court, A.J., A.J. Dean, M. Yearworth, F. Younis, R.C. Butler, E. Caroli, G. Di Cocco, J.B. Stephen, L. Chiappetti, F. Perotti, G. Villa, P. Ubertini and C. La Padula ... A273 (1988) 706
Imaging hard X-rays using a multipitch phoswich RMC, Dean, A.J., J. Fraser-Mitchell, F. Lei and D. Ramsden A273 (1988) 711
Measurements of the X-ray transmission topography on radiation entrance windows for the position sensitive proportional counters on board the German astronomy satellite ROSAT, Stephan, K.-H. ... A273 (1988) 717

Section VI. Applications in condensed matter studies

Detectors for condensed matter studies, Bateman, J.E. ... A273 (1988) 721
Development and investigation of a neutron radiography imaging system with a low-pressure multistep chamber, Anisimov, Yu.S., S.P. Chernenko, A.B. Ivanov, T. Netušil, V.D. Peshekhonov, L.P. Smykov, Yu.V. Zanevsky, M. Cisař, J. Horáček, J. Kňourek, L. Moučka, L. Nezmar, L. Pellar, J. Pochman, Z. Schneider, Z. Šidák, I. Vrba, V. Bízek, Z. Zavadil, P. Beran and K. Černý ... A273 (1988) 731
Linear scintillator PSD for thermal neutrons, Davidson, P.L. ... A273 (1988) 735
A PSD for neutron diffraction, Forsyth, J.B., R.T. Lawrence and C.C. Wilson ... A273 (1988) 741
A high resolution β^- detector, Charon, Y., J.C. Cuzon, H. Tricoire and L. Valentin ... A273 (1988) 748
Development and application of multiwire detectors in biological X-ray studies, Faruqi, A.R. ... A273 (1988) 754
An MWPC for beta radiochromatography, Van Eijk, C.W.E., R.W. Hollander and S.M. Van der Sluis ... A273 (1988) 764
Digital X-ray microscopy with a microfocal X-ray generator and an MWPC area detector, Bateman, J.E., G.R. Moss, P. Rockett and S. Webb ... A273 (1988) 767
Multiwire X-ray detector systems at the Daresbury SRS, Lewis, R., I. Sumner, A. Berry, J. Bordas, A. Gabriel, G. Mant, B. Parker, K. Roberts and J. Worgan ... A273 (1988) 773
Low noise–low power monolithic multiplexing readout electronics for silicon strip detectors, Buttler, W., G. Lutz, H. Bergmann, H. Dietl, D. Hauff, P. Holl and P.F. Manfredi ... A273 (1988) 778
Development of a digital imaging detector based on microchannel plates for biomedical samples emitting uncharged and charged particles, Ljunggren, K. and S.-E. Strand ... A273 (1988) 784
Gamma ray imaging with silicon detectors – A Compton camera for radionuclide imaging in medicine, Solomon, C.J. and R.J. Ott ... A273 (1988) 787

Section VII. Applications in particle physics

A ring-imaging Cherenkov counter with a low-pressure two-step UV-detector, Drees, A., P. Fischer, P. Glässel, G. Lamade, H. Ries, E. Schmoetten, H.J. Specht, A. Breskin, R. Chechik, Z. Fraenkel and I. Tserruya ... A273 (1988) 793
A highly efficient low-pressure UV-RICH detector with optical avalanche recording, Breskin, A., R. Chechik, Z. Fraenkel, D. Sauvage, V. Steiner, I. Tserruya, G. Charpak, W. Dominik, J.P. Fabre, J. Gaudaen, F. Sauli, M. Suzuki, P. Fischer, P. Glässel, H. Ries, A. Schön and H.J. Specht ... A273 (1988) 798
Three-dimensional gaseous detectors, Sauli, F. ... A273 (1988) 805
Some methods and tools for testing and optimizing proportional wire chambers, Duinker, P., G. Faber, H. Van der Graaf, H. Groenstege, D. Harting, F. Hartjes, J. Koopstra, X. Leytens, G. Massaro, H. Onvlee, Y. Peng, H. Postema, P. Rewiersma and T. Vorenkamp ... A273 (1988) 814
Scintillating fibres, White, T.O. ... A273 (1988) 820
The UA2 scintillating fibre detector, Ansorge, R.E., C. Anrouet, P. Bareyre, P. Bonamy, C.N. Booth, M. Bouchard, M. Bourdinaud, M. Cordier, J. Crittenden, R.S. Dewolf, J. Dupont, J. Dupraz, K. Einsweiler, C. Engster, J-P. Fabre, J-M. Gaillard, J-L. Garavel, K. Hultqvist, C. Jeanney, S.G. Katvars, M. Lefebvre, L. Linssen, B. McCluskey, B. Merkel, J-P. Meyer, D.J. Munday, P. Nappey, J.M. Pentney, S Reynaud, J.G.

Rushbrooke, J-C. Thevenin, W.Y. Tsang, A.R. Weidberg, P.S. Wells, S.A. Wotton, T.O. White and H. Zaccone A273 (1988) 826
A position-sensitive detector system with subnanosecond timing and its utilization in the measurement of pion absorption, Petković, T., G. Backenstoss, S. Cierjacks, M. Furić, M. Izycki, S. Ljungfelt, P. Salvisberg, M. Steinacher, H. Ullrich, P. Weber and H.-J. Weyer A273 (1988) 833
Fast triggering with a plastic streamer tube calorimeter, Eerola, P., M. Ellilä, P. Laurikainen, R. Orava and M. Voutilainen A273 (1988) 841
The multiwire proportional chambers of the DELPHI barrel RICH, Bloch, D., M. Dracos, W. Dulinski, D. Husson, P. Juillot, M. Schaeffer, E. Aria, J.D. Berst, E. Christophel, J.P. Froberger, N. Mayet, G. Van Apeldoorn, D. Langerveld, N. De Koning, D.Z. Toet and Th. Ypma A273 (1988) 847
The Sydney underground solar neutrino detector, Bakich, A.M., R.C. Cederblad, P.R. Gerhardy, J. Malos, M. Omori, L.S. Peak, C.J. Sheerman and P. Soler A273 (1988) 853
Lorentz angle studies for the SLD endcap Cherenkov ring imaging detector, Coyle, P., M. Cavalli-Sforza, D. Coyne, M. Schneider, E. Spencer, D. Williams, V. Ashford, T. Bienz, F. Bird, M. Gaillard, G. Hallewell, Y.J. Kwon, D. Leith, D. McShurley, A. Nuttall, G. Oxoby, H. Peterson, B. Ratcliff, R. Reif, P. Rensing, D. Schultz, R. Shaw, S. Shapiro, N. Toge, J. Va'vra, T. Weber, S. Williams, D. Bauer, D. Caldwell, D. Hale, A. Lu, S. Yellin, R. Johnson, B. Meadows and M. Nussbaum A273 (1988) 858
Silicon drift chamber prototype for the upgrade of the UA6 experiment at the CERN $p\bar{p}$ collider, Gatti, E., A. Longoni, M. Sampietro, P. Giacomelli, A. Vacchi, P. Rehak, J. Kemmer, P. Holl, L. Struder and W. Kubischta A273 (1988) 865

Section VIII. Applications in positron emission tomography

High resolution and efficiency annihilation photon detection with a multi-element BGO converter and two dimensional optical readout, Llewellyn, T.J., R.S. Gilmore, D.R.N. Jeffery and J. Malos A273 (1988) 869
Application of positron emission tomography to particulate flow measurement in chemical engineering processes, Bemrose, C.R., P. Fowles, M.R. Hawkesworth and M.A. O'Dwyer A273 (1988) 874
A BaF_2–TMAE detector for positron emission tomography, Miné, P., J.C. Santiard, D. Scigocki, M. Suffert, S. Tavernier and G. Charpak A273 (1988) 881
A gamma camera for PET using a barium fluoride scintillator and a TMAE filled wire chamber, Schotanus, P., C.W.E. Van Eijk and R.W. Hollander A273 (1988) 886
A position-sensitive detector for use in positron emission tomography, Karp, J.S., D.A. Mankoff and G. Muehllehner A273 (1988) 891
Aspects of the application of positron emission tomography to engineering studies: drawing overlays and correction for photon attenuation, O'Dwyer, M.A., M.R. Hawkesworth and J. Walker A273 (1988) 898
High-density avalanche chambers for positron emission tomography, Manfrass, P., W. Enghardt, W.D. Fromm, D. Wohlfarth and K. Hohmuth A273 (1988) 904
Positron emission holography; a new method of creating positron camera images, Beynon, T.D., M.R. Hawkesworth, T.R. Mathews and M.A. O'Dwyer A273 (1988) 908
Microchannel plate detector for 0.5 MeV gamma rays, McKee, B.T.A., A. Linhanata and A.T. Stewart A273 (1988) 911

Gaseous detectors with parallel electrodes and anode mesh planes, Charpak, G., W. Dominik, J.C. Santiard, F. Sauli and N. Solomey A274 (1989) 275
Medium distance low jitter fiber-optic transmission of timing signals in nuclear instrumentation, Coulon, J.P., M. Hesse and P. Platz A274 (1989) 291
A new approach for automatic count rate stabilization (*Letter to the Editor*), Kumar, B. and B.P. Singh A274 (1989) 406
Comments on some publications concerning fine grid dynode PMTs (*Letter to the Editor*), Kuroda, K., S. Sillou and F. Takeutchi A274 (1989) 409
A thirty-two channel VME scaler, Morrison, T.P. and N.A. Smith A274 (1989) 533
New differential linearity compensation method for successive approximation analog-to-digital convertors, Yoshimura, A. A274 (1989) 536
Fast timing with Hamamatsu R2083Q photomultipliers (*Letter to the Editor*), De Vries, J., A. Zecca, R.S. Brusa, R.G. Grisenti and S. Oss A275 (1989) 194
The flash-TDC (*Letter to the Editor*), Klär, H., M. Schulz, P. Steffen and D. Düllmann A275 (1989) 197
Photon-mediated electron multiplication in liquid xenon doped with trimethylamine, Sano, T., K. Ashikaga, T. Doke, A. Hitachi, J. Kikuchi, K. Masuda and Y. Okumura A275 (1989) 346
A systematic study of the emission of light from electron avalanches in low-pressure TEA and TMAE gas mixtures, Sauvage, D., A. Breskin and R. Chechik A275 (1989) 351
A study of ionization electrons drifting over large distances in liquid argon, Buckley, E., M. Campanella, G. Carugno, C. Cattadori, A. Gonidec, R. Muñoz, S. Ochsenbein, C. Rubbia, D. Schinzel, W.F. Schmidt and W. Seidl A275 (1989) 364

A fast pulse amplifier for pulse radiolysis measurements with digitally controlled dc offset, Tirosh, D. and K. Whittaker A275 (1989) 373

Proceedings of the International Workshop on Silicon Pixel Detectors for Particles and X-rays Leuven, Belgium, May 31–June 2, 1988

Section I. Invited presentations

Development of silicon pixel detectors: an introduction, Heijne, E.H.M. and P. Jarron A275 (1989) 467
Tradeoffs in low-power CMOS analog circuits for pixel detectors, Vittoz, E.A. A275 (1989) 472
Trends in VLSI processing, Declerck, G. A275 (1989) 475
Technology tradeoffs in high-frequency detector integrated circuits, Sansen, W. A275 (1989) 479
Radiation sensors in Philips, Hoeberechts, A.M. A275 (1989) 480

Section II. Contributed papers

A vertex detector for SLD, Damerell, C.J.S., R.L. English, A.R. Gillman, A.L. Lintern, D. Phillips, Rong G., C. Sutton, F.J. Wickens, G. Agnew, P. Clarke, S. Hedges and S.J. Watts A275 (1989) 484
A proposed VLSI pixel device for particle detection, Parker, S. A275 (1989) 494
High-purity silicon radiation-sensor array, Audet, S.A. and E.M. Schooneveld A275 (1989) 517
The Isophot CREA25 far infrared Si:P matrix, Dierickx, B., J. Vermeiren and O. Frenzl A275 (1989) 527
Charge-domain analog signal processing for detector arrays, Fossum, E.R. A275 (1989) 530
Front-end electronics on high resistivity fully depleted silicon, Radeka, V., P. Rehak, S. Rescia, E. Gatti, A. Longoni, M. Sampietro, G. Bertuccio, P. Holl, L. Strüder and J. Kemmer A275 (1989) 536
Fabrication of detectors and transistors on high-resistivity silicon, Holland, S. A275 (1989) 537
XYW detector: a smart two-dimensional particle sensor, Dierickx, B. A275 (1989) 542
Radiation damage effects on imaging charge coupled devices, Roy, T., S.J. Watts and D. Wright A275 (1989) 545
Amorphous semiconductors for particle detection: physical and technical limits and possibilities, Equer, B. and A. Karar A275 (1989) 558
A silicon pixel detector with routing for external VLSI readout, Thomas, S.L. and P. Seller A275 (1989) 564
Fully integrated CMOS pixel detector for high energy particles, Vanstraelen, G., I. Debusschere, C. Claeys and G. Declerck A275 (1989) 574
Silicon pin diode array hybrids for charged particle detection, Shapiro, S.L., W.M. Dunwoodie, J.F. Arens, J.G. Jernigan and S. Gaalema A275 (1989) 580
Solid-state detectors for synchrotron radiation experiments, Allinson, N.M. A275 (1989) 587
A silicon strip detector for β-radiochromatography, Schooneveld, E.M., C.W.E. Van Eijk, R.W. Hollander and S.A. Audet A275 (1989) 597

Section III. Summary and discussions

Round table sessions, May 31–June 2 ..... A275 (1989) 603
"How to" ···? session ..... A275(1989) 606

Concluding remarks A275 (1989) 613

An analog and time digitizer for two-dimensional data acquisition for time-of-flight measurements, Schmiedmayer, J., M. Pernicka and M.C. Moxon A276 (1989) 250
A parallel plate chamber with pixel readout particularly suitable for very high data rate, Angelini, F., R. Bellazzini, A. Brez, M.M. Massai and M.R. Torquati A276 (1989) 258
Yield of photoelectrons produced in TMAE and solid TMPD by BaF_2 scintillation light, Francke, T. and M. Suffert A276 (1989) 263
Effects of deep imperfection levels on the capacitance of semiconductor detectors, Dabrowski, W. and K. Korbel A276 (1989) 270
Ageing effects in SQS tubes, Zhu Guo-Sheng, Lu Chang-Guo, Zhou Yue-Hua and Zheng Xiao-Ming A276 (1989) 280
Electron drift velocity close to a sense wire, Konijn, J. and F. Hartjes A276 (1989) 582
Performance of a position-sensitive multistep parallel-plate avalanche chamber, Bhattacharya, P., P. Basu and M.L. Chatterjee A276 (1989) 585
Detector–preamplifier coupling with a shunt inductance: noise filtering with a flat top constraint in the weighting function, Gatti, E., G. Ripamonti and M. Sampietro A276 (1989) 588
A linear mixer and shape normalizer for 50 μs tail pulses, Klopf, P. and W. Stüber A276 (1989) 595
Charge diffusion in the capacitive readout of resistive cathodes, Ellilä, M. A277 (1989) 507

Transputer-based readout controller, Belusevic, R. and G. Nixon A277 (1989) 513
Fast parallel pipelined readout architecture for a completely flash digitizing system with multilevel trigger, Cousins, R.D., J. Konigsberg, J. Kubic, P.L. Mélèse, G.W. Hart, W.R. Molzon, G.M. Irwin, D.A. Ouimette, J.L. Ritchie, Q.H. Trang and R.J. Whyley A277 (1989) 517
Digital signal processing for high rate gamma-ray spectroscopy, Drndarevic, V., P. Ryge and T. Gozani A277 (1989) 532
Ethyl ferrocene in gas, condensed, or adsorbed phases: three types of photosensitive elements for use in gaseous detectors, Charpak, G., V. Peskov, F. Sauli and D. Scigocki A277 (1989) 537
Investigation of light emission from a parallel-plate avalanche chamber filled with noble gases and with TEA, TMAE, and H_2O vapours at atmospheric pressure, Peskov, V., G. Charpak, W. Dominik and F. Sauli A277 (1989) 547
Study of argon-based Penning gas mixtures for use in proportional counters, Agrawal, P.C., B.D. Ramsey and M.C. Weisskopf A277 (1989) 557
The response of a single gap tetramethylsilane ionization chamber to 8–23 MeV protons at different incident angles and to electrons of a ^{207}Bi source, Duhm, H.H., I. Fedder and K. Schiffmann A277 (1989) 565
Pulse shape analysis of CsI(Tl)-PD signals induced by 6–20 MeV α-particles and protons, Van Melle, J.C.C., G.J. Van Nieuwenhuizen, R.J. Meijer, P.F. Box, P. Decowski and R. Kamermans A277 (1989) 584
HPGe detector preamplifier output pulse simulator, Bose, S. and R. Bhattacharya A277 (1989) 587
New results from an imaging CCD used as a position sensitive detector at standard TV rate and room temperature, Calore, M., G. Zanella and R. Zannoni A278 (1989) 497
A simple gating system for the Hamamatsu R1250 photomultiplier, Séné, M.R. A278 (1989) 503
A stretcher and holder module, Guazzoni, P., G. Taiocchi and L. Zetta A278 (1989) 507
Production and test of coherent bundles of plastic scintillating microfibers (*Letter to the Editor*), Blumenfeld, H., M. Bourdinaud, P. Rebourgeard and J.C. Thevenin A278 (1989) 619
Trapping of fluorescent light in cylindrical scintillators (*Letter to the Editor*), Carrier, C. and R. Lecomte A278 (1989) 622
A versatile electronic pulse-shape discriminator, Pai, S., W.F. Piel Jr, D.B. Fossan and M.R. Maier A278 (1989) 749
Fano factor implications from gas scintillation proportional counter measurements, Kowalski, T.Z., A. Smith and A. Peacock A279 (1989) 567
A high precision peak sensing circuit for measuring the integral linearity of nuclear pulse amplifiers, Rogers, L.C. A279 (1989) 573
Low temperature, 0.1 Tesla magnetometer, Piqué, A., J.M. Brennan, R. Darling, R. Tanczyn, D. Ballon and N. Benczer-Koller A279 (1989) 579
A flexible timing unit: delay and clock generator (*Letter to the Editor*), Cesaroni, F., E. Gennari and S. Gentile . A279 (1989) 671
A theoretical model of a fast waveform sampling switch, Wang, J.-J., K.-J. Kang and R.S. Larsen A280 (1989) 95

Numerical and Data Analysis

An analytical approximation for the coherent scattering cross section of X- and γ-rays, Massaro, E. and G. Matt A271 (1988) 603
Energy response of Bonner spheres to neutrons in parallel beam and point source geometries, Vylet, V. and A. Kumar A271 (1988) 607
Numerical solution of the inverse problem in the analysis of neutron small angle scattering experiments, Magnani, M., P. Puliti and M. Stefanon A271 (1988) 611
The elimination of prompt components in delayed coincidence time distributions, Petkov, P., W. Andrejtscheff, L.K. Kostov and L.G. Kostova A271 (1988) 617
A quick method of obtaining the electronic factors Ω_K, Ω_{LI} and Ω_{LII} for E0 transitions, Kantele, J. A271 (1988) 625
A neutron spectrometry unfolding code based on quadratic programming, Onoda, T. and H. Sekimoto A272 (1988) 844
A detailed study of the interaction mechanisms for Si(Li) detector response functions by the direct Monte Carlo approach, He, H.-J., T.-W. Zhang, R.-C. Shang and S.-D. Xu A272 (1988) 847
On histogram parameter estimator bias, Akopyan, M.V., S.V. Klimenko, A.A. Lebedev and E.A. Razuvaev A272 (1988) 855
Knot positions in least-squares fitting of data using cubic splines, Morton, W.T. A272 (1988) 861
Deconvolution of kinetic decays and fitting of multiple exponential decay curves by the linear prediction method, Tang, J. and J.R. Norris A273 (1988) 338
Deconvolution of Doppler-broadened positron annihilation lineshapes by fast Fourier transformation using a simple automatic filtering technique, Britton, D.T., P. Bentvelsen, J. De Vries and A. Van Veen A273 (1988) 343
Optimum track fitting in the presence of multiple scattering, Lutz, G. A273 (1988) 349
On estimating distributions with the maximum entropy principle, Zhigunov, V.P., T.B. Kostkina and A.A. Spiridonov A273 (1988) 362
Flow analysis using calorimeters, Gavron, A. A273 (1988) 371
A comparison of empirical and semiempirical efficiency calculations for Ge detectors, Owens, A. A274 (1989) 297
A model for electron/ion recombination in ionization chambers, Sailor, W.C. and S.G. Prussin A274 (1989) 305
Microprocessor-based reduction of gamma spectra: a fast method for deconvolution of overlapped peaks, Stockman, H.W. A274 (1989) 314

Détermination du taux de comptage en amont de deux temps morts classiques en série et de types différents, Libert, J. ... A274 (1989) 319
Unfolding the response function of high-quality germanium detectors, Love, D.J.G. and A.H. Nelson ... A274 (1989) 541
Efficient estimator of parameters; goodness-of-fit test for multivariate distributions for data presented by one-dimensional histograms, Chernov, N.I., V.S. Kurbatov and G.A. Ososkov ... A274 (1989) 547
A simple method for realistic estimation of most probable energy loss in thin gas layers, Grishin, V.M. and G.I. Merson ... A274 (1989) 551
Lifetime determinations in the presence of cuts, Lyons, L. and P. Clifford ... A274 (1989) 557
The calculation of diffracted-beam profiles for n-reflection channel-cut monochromators, Rae, S.C. and S.W. Wilkins ... A274 (1989) 560
Design optimization of a small angle neutron scattering spectrometer (*Letter to the Editor*), Margaça, F.M.A., A.N. Falcão, J.F. Salgado and F.G. Carvalho ... A274 (1989) 606
Comment on "Unfolding the response function of high-quality germanium detectors" by Love and Nelson (*Letter to the Editor*), Waddington, J.C. ... A274 (1989) 608
A simplified method for computing K internal-conversion coefficients for E1, E2, E3, M1, M2 and M3 transitions from tabulated values, Kantele, J. ... A275 (1989) 149
Evaluation of beta-decay. I. The tradiational phase space factors, Wilkinson, D.H. ... A275 (1989) 378
Noniterative fitting of deconvoluted positron annihilation lineshapes, Britton, D.T. and A. Van Veen ... A275 (1989) 387
On optimum binning for spectral distributions, Zlokazov, V.B. ... A275 (1989) 392
A new approach to evaluate the response functions for conical and cylindrical collimators, Gigante, G.E. ... A275 (1989) 397
A simple method of analysing alpha spectra of environmental natural uranium samples, Tomé, F.V. and A.M. Sánchez ... A276 (1989) 289
Resolution in deep inelastic neutron scattering using pulsed neutron sources, Andreani, C., G. Baciocco, R.S. Holt and J. Mayers ... A276 (1989) 297
Analytic representation of bremsstrahlung spectra from thick radiators as a function of photon energy and angle, Findlay, D.J.S. ... A276 (1989) 598
A simple method to estimate small photoelectron numbers for a photomultiplier using the log–normal function, Omori, M. ... A276 (1989) 602
Using precalibrated peak shapes in the analysis of energy dispersive electron induced X-ray spectra, Aarnio, P.A. and H. Lauranto ... A276 (1989) 608
Weak peak problem in high resolution gamma-ray spectroscopy, Yadav, J.S., J. Brückner and J.R. Arnold ... A277 (1989) 591
Calculation of the pulse-height response of organic scintillators for neutron energies $28 \ll E_n \ll 492$ MeV, Sailor, W.C., R.C. Byrd and Y. Yariv ... A277 (1989) 599
Upper limits in experiments with background or measurement errors, Zech, G. ... A277 (1989) 608
Use of the spectral analysis for estimating the intensity of a weak periodic source, Marseguerra, M. ... A277 (1989) 611
A pattern recognition approach in X-ray fluorescence analysis, Yin, L.I, J.I. Trombka and S.M. Seltzer ... A277 (1989) 619
On the determination of the shape parameters of the γ-ray multiplicity distribution with a low efficiency multicounter system (*Letter to the Editor*), Russo, G. ... A277 (1989) 682
A simple relationship between the Voigt integral and the plasma dispersion function. Additional methods to estimate the Voigt integral (*Letter to the Editor*), Jiménez-Domínguez, H., H. Flores-Llamas, A. Cabral-Prieto and A. Bravo-Ortega ... A278 (1989) 625
Three-dimensional image processing in the analysis of triple γ-ray energy coincidences, Mossberg, K., P.-O. Forsgren, L. Hildingsson, W. Klamra and Th. Lindblad ... A278 (1989) 755
A method for correcting observed distributions of multiplicities using the maximum entropy principle, Fuglesang, C. ... A278 (1989) 765
The rôle of the number of independent time channels for dead-time losses in coincidence experiments, Friedrich, J. ... A279 (1989) 587
A Fourier transform method for the selection of a smoothing interval, Kekre, H.B., V.K. Madan and B.R. Bairi . A279 (1989) 596
A priori distributions from the principle of maximum entropy for the Monte Carlo unfolding of particle energy spectra, Weise, K. and M. Matzke ... A280 (1989) 103
Spectral information in intense radiation bursts (*Letter to the Editor*), Nardi, E. ... A280 (1989) 147

Fusion

Proceedings of the International Symposium on the Feasibility of Aneutronic Power: Review of Searches for Nonradioactive Nonproliferating Nuclear Energy (Princeton, New Jersey, USA, September 10–11, 1987)

Introductory remarks, Rosenbluth, M. ... A271 (1988) 1
Opening remarks, Miley, G. ... A271 (1988) 1

Section I. Nucleonics and energetics

Near-term experiments on fusion burn conditions for neutronless reactions, Coppi, B. ... A271 (1988) 2
Application of polarized nuclei and advanced fuel fusion, Kulsrud, R.M. ... A271 (1988) 4
Fusion chain reaction cycles in p + ^{6}Li fuel, McNally Jr, J.R. ... A271 (1988) 5
D^{3}He fuels in a field-reversed configuration, Momota, H., M. Okamato, Y. Nomura, M. Ohnishi, H.L. Berk and T. Tajima ... A271 (1988) 7
Time average neutralized migma: a colliding beam/plasma hybrid physical state as aneutronic energy source – A review, Maglich, B.C. ... A271 (1988) 13
Synchrotron radiation loss from hot plasma, Tamor, S. ... A271 (1988) 37
Studies of physics conditions for aneutronic and/or nonradioactive nuclear energy generation in ^{3}He-induced fission of ^{6}Li and ^{3}He fusion in a steady state migma plasma, Powell, C., J. Nering, B.C. Maglich and A. Wilmerding ... A271 (1988) 41
Basic cross section data for aneutronic reactor, Feldbacher, R. and M. Heindler ... A271 (1988) 55
Neutron-lean fusion reactor studies for thermal plasmas, Kernbichler, W. and M. Heindler ... A271 (1988) 65
An overview of D–^{3}He fusion reactors, Dabiri, A.E. ... A271 (1988) 71
Monte Carlo simulation of energy balance in a pure ^{3}He migma of 4 MeV, Golden, J. and R.A. Miller ... A271 (1988) 79

Section II. Plasma physics

Two-fluid MHD model of migma: equilibrium and stability, Norwood Jr, J. ... A271 (1988) 89
Large orbit plasma stability theory, Ferro Fontan, C. and F.T. Gratton ... A271 (1988) 100
Flute interchange $m = 1$ mode in migma, Berk, H.L., M.N. Rosenbluth and H.V. Wong ... A271 (1988) 107
Models of ion beam interactions for the stability analysis of migma, Gnavi, G. and F.T. Gratton ... A271 (1988) 112
Nonlinear effects and nonthermal plasmas, Hora, H. ... A271 (1988) 117
Precessional stabilization of the $m = 1$ interchange mode in low density migma plasmas, Blake, M.L. ... A271 (1988) 126
Model calculation and simulation of nonobserved negative mass instability in migma, Emery, M. and R.A. Miller ... A271 (1988) 134
Migma IVa and IVb simulation results, Goplen, B. ... A271 (1988) 140
Anomalous temperature equilibria due to $E \times B$ drive and the nuclear dynamo, McNally Jr, J.R. ... A271 (1988) 146
A highly diamagnetic, finite length migma equilibrium based on a new adiabatic invariant, Brandenburg, J.E. ... A271 (1988) 148
Remarks on the $m = 1$ flute mode, Chen, L. ... A271 (1988) 151
Parameters of the Migma IVb experiment and physical quantities to be measured, Nering, J., B. Maglich and C. Powell ... A271 (1988) 155

Section III. New concepts

Opening remarks to the session on new concepts, Gell-Mann, M. ... A271 (1988) 165
Speculations on a relativistic strong focusing self-collider with very high luminosity ($\geq 10^{40}$ cm^{-2}s^{-1}): macroproduction of antinuclei and other micro cross section events and formation of ambiplasma, Maglich, B.C. ... A271 (1988) 167
Status of the Fermilab antiproton source, Mills, F.E. ... A271 (1988) 176
Geometric limitations of the efficient generation of antihydrogen in an intense laser focus, Christopoulos, A.S., H. Hora, R.J. Stening, H. Loeb and W. Scheid ... A271 (1988) 178
Novel fusion energy conversion methods, Perkins, L.J., G.H. Miley and B.G. Logan ... A271 (1988) 188
^{3}He sources for D–^{3}He fusion power, Miley, G.H. ... A271 (1988) 197
Production of muons for fusion catalysis using a migma configuration, Chapline, G.F. and R.W. Moir ... A271 (1988) 203
Fission fragment rocket concept, Chapline, G.F. ... A271 (1988) 207
Radio frequency direct conversion of migma power, Menasian, S.C. ... A271 (1988) 209
Space charge limit in a relativistic migma, Blewett, J.P. ... A271 (1988) 212
Ring magnets in migma systems, Blewett, J.P. ... A271 (1988) 214

Section IV. Panels

Panel 1: Discussion of report of the Aneutronic Fusion Committee of the National Academy of Science's Air Force Studies Board, Miley, G., H. Berk, J.R. McNally Jr and B.C. Maglich ... A271 (1988) 217
Panel 2: Critical physics issues of aneutronic migma reactor, Kulsrud, R., H. Berk, C. Ferro-Fontan, E. Karlsson and F. Mills ... A271 (1988) 222
Panel 3: Critical engineering issues of aneutronic reactor for space, terrestrial, and naval applications, Harms, A.A., S. Ghose and T.A. Parish ... A271 (1988) 225

Appendix

Aneutronic energy – Definitions and background A271 (1988) 229

Gamma ray measurements during deuterium and ^{3}He discharges on TFTR, Cecil, F.E. and S.S. Medley A271 (1988) 628
Investigation of helium and hydrogen deposition in an accelerator based neutron source, Sinha, A. A274 (1989) 563
Thermal flux perturbation of lithium-glass scintillator, Yamaguchi, S. A274 (1989) 568
Edge effect of thin lithium-glass scintillators, Yamaguchi, S. A274 (1989) 573
Ion capacitor, a new approach to generate high current pulsed nonprotonic ion beams (*Letter to the Editor*), Chi Yankun and Lu De A274 (1989) 610
Preliminary results on time resolving spectrometry for neutrons emitted in plasma focus discharges (*Letter to the Editor*), Vlad, M., M. Ganciu, M. Ivaşcu, N. Mandache, F. Spineanu and V. Zoiţa A274 (1989) 613
High-current radiofrequency quadrupole accelerators for current drive in tokamaks, Murphy, B.D., J.H. Whealton, G.E. McMichael, W.B. Becraft and H.H. Haselton A275 (1989) 157

Proceedings of the International Symposium on Heavy Ion Inertial Fusion (Darmstadt, FRG, June 28–30, 1988)

Section I. Overviews and laboratory programs

Heavy-ion fusion in the USA, Polansky, W.M. A278 (1989) 1
Some aspects of heavy-ion thermonuclear fusion research in ITEP, Koshkarev, D.G. A278 (1989) 4
Overview of the German program on high energy density produced by heavy ion beams, Bock, R. A278 (1989) 7
Research on ion induction linacs at Berkeley, Fessenden, T.J. A278 (1989) 13
Status report on the SIS/ESR project, Böhne, D. A278 (1989) 19
Whither heavy-ion fusion?, Lawson, J.D. A278 (1989) 22
Hot dense matter physics for heavy-ion fusion with GSI beams, Meyer-ter-Vehn, J. A278 (1989) 25
Overview of the USA inertial fusion program, Kahalas, S.L. A278 (1989) 31
Recent progress in inertial confinement fusion at Livermore, Bangerter, R.O. A278 (1989) 34
Ion beam–plasma interaction: a standard model approach, Deutsch, C., G. Maynard, R. Bimbot, D. Gardes, S. Della-Negra, M. Dumail, B. Kubica, A. Richard, M.F. Rivet, A. Servajean, C. Fleurier, A. Sanba, D.H.H. Hoffmann, K. Weyrich and H. Wahl A278 (1989) 38

Section II. Beam–plasma interaction and atomic physics

Beam–plasma interaction experiments at GSI: an experimental program to study high energy density in matter by means of intense heavy-ion beams, Hoffmann, D.H.H., J. Meyer-ter-Vehn, R.W. Müller, I. Hofmann, R. Bock and R. Arnold A278 (1989) 44
Energy loss of heavy ions in a hydrogen discharge plasma, Weyrich, K., D.H.H. Hoffmann, J. Jacoby, H. Wahl, R. Noll, R. Haas, H. Kunze, R. Bimbot, D. Gardès, M.-F. Rivet, C. Deutsch and C. Fleurier A278 (1989) 52
Shell and higher-order corrections to the stopping power of fast ions in hot dense plasma, Beynon, T.D. A278 (1989) 56
Beam intensity losses in the storage rings of the heavy-ion intertial fusion scenario HIBALL II due to ion–ion collisions, Melchert, F., E. Salzborn, I. Hofmann, R.W. Müller and V.P. Shevelko A278 (1989) 65
Photoionization of beam ions, Langdon, A.B., R.O. Bangerter and D.A. Liberman A278 (1989) 68
Emission of light from matter excited by heavy-ion beams, Ulrich, A., B. Busch, W. Krötz, G. Ribitzki, J. Wieser and D.E. Murnick A278 (1989) 72
A survey of radiation transport effects in homogeneous targets heated by heavy-ion beams from the GSI Darmstadt SIS, Tahir, N.A. and R.C. Arnold A278 (1989) 76
RFQ-experiments with intense heavy-ion beams, Jacoby, J., R.W. Müller, D.H.H. Hoffmann, H. Wahl, K. Weyrich, B. Heimrich, M. Winkler, H. Wollnik and S. Maurmann A278 (1989) 82
A plasma target for the investigation of the interaction of fast heavy ions with hot matter, Noll, R., H. Kunze and C.R. Haas A278 (1989) 85
Collision frequency in ion-beam–plasma interaction under strong drift conditions, Mulser, P., K. Niu and R.C. Arnold A278 (1989) 89
Heavy-ion beam tailoring using dielectronic recombination, Mokler, P.H., S. Reusch and Th. Stöhlker A278 (1989) 93
Weibel-type instability of intense ion beam propagation in a reactor chamber, Okada, T., T. Shimojo and K. Niu A278 (1989) 97
A theoretical analysis of the propagation of ion beams in ICF, Kaneda, T. and K. Niu A278 (1989) 99

Section III. Target physics

An ion beam target for 3 GJ fusion output, Niu, K. ... A278 (1989) 102
Recent results in the analysis of heavy-ion-beam-driven ICF targets, Velarde, G., J.M. Aragonés, L. Gámez, C. González, J.J. Honrubia, J.M. Martínez-Val, E. Mínguez, J.L. Ocaña, J.M. Perlado and P.M. Velarde ... A278 (1989) 105
Volume ignition in pellet fusion, Kasotakis, G., L. Cicchitelli, H. Hora and R.J. Stening ... A278 (1989) 110
Plasma liners for pellet implosions, Linhart, J.G. ... A278 (1989) 114
Inertial fusion using heavy-ion beams, Tahir, N.A. and K.A. Long ... A278 (1989) 118
Two-dimensional hydrodynamic simulations of beam–target experiments, Schneider, V. and J.A. Maruhn ... A278 (1989) 123
Conversion efficiency for producing thermal radiation using high-energy heavy-ion beams, Arnold, R.C. and N.A. Tahir ... A278 (1989) 129
Some unconventional ICF approaches with heavy-ion beams, Sayasov, Yu.S. ... A278 (1989) 132
Rayleigh–Taylor instability: design of an experiment for a heavy-ion-heated plasma at GSI, Kull, H.J. and R.C. Arnold ... A278 (1989) 135

Section IV. Accelerator research

High-current beam transport, Reiser, M. ... A278 (1989) 138
Beam funneling studies at Los Alamos, Stovall, J.E., F.W. Guy, R.H. Stokes and T.P. Wangler ... A278 (1989) 143
Experimental program of heavy-ion fusion research in ITEP, Balabayev, A.N., N.A. Vasilyev, D.G. Koshkarev, S.V. Latyshev, A.R. Peuto, I.V. Rudskoy, G.V. Ryazanov, A.N. Talyzin and Yu.N. Cheblukov ... A278 (1989) 148
Observation of a longitudinal instability of a 70 MeV coasting beam on the ISIS accelerator, Martin, R.L., I.S.K. Gardner, C.W. Planner and G.H. Rees ... A278 (1989) 151
Accelerator research on MBE-4, an experimental multibeam induction linac, Meuth, H., T.J. Fessenden, D. Keefe and A.I. Warwick ... A278 (1989) 153
Using 100 GeV/nucleon accelerators for fusion and plasma experiments, Arnold, R.C. ... A278 (1989) 163
Improvement ideas for heavy-ion fusion linacs, Müller, R.W. ... A278 (1989) 166
Development of a 27 MHz heavy-ion spiral RFQ, Schempp, A., H. Deitinghoff and A. Kipper ... A278 (1989) 169
Emittance growth and particle loss during intense-beam propagation in a nonlinear periodic transport system, Haber, I. and H. Rudd ... A278 (1989) 174
Achromatic beam combiner and bend system for ILSE, Lee, E.P. ... A278 (1989) 178
A study of heavy-ion beams during longitudinal compression using particle simulation, Ho, D.D.-M. and S.T. Brandon ... A278 (1989) 182
Development of 3D simulations for heavy-ion fusion beam transport and compression problems, Mark, J.W.-K., A. Friedman, C.-L. Chang, A. Drobot, A. Mankofsky and A. Faltens ... A278 (1989) 186
Transverse misalignments in a driver, Smith, L. and K. Hahn ... A278 (1989) 191
Experimental studies of electron beam transport in the Maryland periodic solenoid channel, Kehne, D., K. Low, M. Reiser, T. Shea, C.R. Chang and Y. Chen ... A278 (1989) 194
Comparison of simulation, theory and measurement for the Maryland transport experiment, Rudd, H., I. Haber, C.R. Chang, D. Kehne, K. Low, M. Reiser and T. Shea ... A278 (1989) 198
Final focusing lenses to produce hot dense matter, Heimrich, B., H. Nestle, M. Winkler, H. Wollnik, J. Jacoby, R.W. Müller and D.H.H. Hoffmann ... A278 (1989) 202
Progress on a 2 MV injector for a scaled HIF accelerator experiment, Rutkowski, H.L., A. Faltens, S. Humphries, D. Vanecek, C. Pike, R.M. Johnson and E.A. Meyer ... A278 (1989) 206
Acceleration of intense proton beam with split coaxial four-rod RFQ, Leipe, P., K. Langbein, H. Deitinghof, H. Klein and A. Schempp ... A278 (1989) 213
RFQ sparking experiments, Gerhard, A., J. Brutscher, H. Klein, M. Kurz and A. Schempp ... A278 (1989) 220
Space-charge neutralization in low-energy beam lines, Weis, T., R. Dölling, P. Gross, H. Klein and J. Wiegand ... A278 (1989) 224
The plasma beam ion source, Langbein, K. ... A278 (1989) 228
Improved formulae for beam currents and phase advances in RFQ linacs, Junior, P. and H. Deitinghoff ... A278 (1989) 233
Development of a split coaxial RFQ at INS, Arai, S., T. Fukushima, T. Morimoto, E. Tojyo, N. Tokuda, M. Yoshizawa and T. Hattori ... A278 (1989) 236
An electron cooling system for the heavy-ion synchrotron storage ring TARN II, Tanabe, T. and T. Watanabe ... A278 (1989) 241
Theoretical and experimental investigations of a neutralized ion induction linac for inertial confinement fusion, Karas', V.I., V.A. Kiyashko, E.A. Kornilov and Ya.B. Fainberg ... A278 (1989) 245
on beam space-charge neutralization and acceleration in structures with magnetic insulation, Karas', V.I., V.V. Mukhin and A.M. Naboka ... A278 (1989) 247
Acceleration of high-current ion beams in the induction linac, Kiyashko, V.A. E.A. Kornilov and V.A. Vinokurov ... A278 (1989) 249
Simulation of an induction linac for space-charge-neutralized ion beams, Gorban', A.M., V.A. Kiyashko and E.A. Kornilov ... A278 (1989) 251

Section V. Perspectives

Particle accelerator developments and their applicability to ignition devices for inertial fusion, Rubbia, C. A278 (1989) 253
Induction linac drivers: prospects for the future, Keefe, D. A278 (1989) 266
Rf linac and storage ring – Perspectives of heavy-ion fusion studies at GSI, Hofmann, I. A278 (1989) 271
Scenarios for fusion energy, Herrmannsfeldt, W.B. A278 (1989) 276
Advanced fuels for heavy-ion beam fusion, Miley, G.H. A278 (1989) 281
Heavy-ion inertial fusion: 1988 symposium summary, Godlove, T.F. A278 (1989) 288

An experimental setup for measurement of neutron energy spectra in lithium with collimated 14.7 MeV neutrons, Ofek, R., A. Tsechanski, A.E. Profio and G. Shani A278 (1989) 513
Ionization chamber system to eliminate the memory effect of tritium, Nishikawa, M., T. Takeishi, Y. Matsumoto and I. Kumabe A278 (1989) 525
Performance of a liquid scintillator at high count-rates for fusion applications, Elevant, T. A278 (1989) 774
Equilibrium control in the HBTX1C reversed field pinch, Robertson, S.H., B. Alper, M.J. Butler and A.A. Newton A279 (1989) 599
Calculation of the absolute detection efficiency of a moderated ^{235}U neutron detector on the tokamak fusion test reactor, Ku, L.P., H.W. Hendel and S.L. Liew A280 (1989) 113

Fission and Nuclear Reactors

A computer controlled, high performance, neutron coincidence counting system, Lightfoot, J.A. and G. Toon .. A271 (1988) 636
Simultaneous measurements of radioactive noble gases and aerosols in the vicinity of a nuclear power station, Bjurman, B., B. Erlandsson and S. Mattsson A274 (1989) 324
Design study of graphite gas-cooled high flux reactor, Liem, P.H., H. Sekimoto and E. Suetomi A274 (1989) 579
Variance and higher order signal moments in neutron flux measurements, Bärs, B. A275 (1989) 403
Suboptimal processor for anomaly detection for system surveillance and diagnosis, Ciftcioglu, Ö., J.E. Hoogenboom and H. Van Dam A278 (1989) 532

Dosimetry, Space Radiation and Medical Applications

Proceedings of the Workshop on Solar Neutrino Detection with ^{205}Tl and Related Topics (Dubrovnik, Yugoslavia, September 29 – October 3, 1986)

Section I. Neutrino physics and astrophysics

Weak interaction mixing, Mössbauer, R. A271 (1988) 237
The Sun as a star, Sotirovski, P. A271 (1988) 238
Radiochemical solar neutrino detectors and neutrino oscillations, Hampel, W. A271 (1988) 247
Neutrinos in cosmology and astrophysics, Fukugita, M. A271 (1988) 248
Neutrino oscillations in matter and measurement of the ν luminosity of the Sun in the past, Mikheyev, S.P. and A.Yu. Smirnov A271 (1988) 249
Isotope dilution measurements of Pb, U and Th concentrations in lorandite from Allchar, Todt, W. A271 (1988) 251

Section II. Solar neutrino experiments

Status of radiochemical solar neutrino detectors, Kirsten, T. A271 (1988) 253
Physics underground at Baksan, Pomansky, A.A. A271 (1988) 254
Resumé of the Workshop on the Feasibility of Solar Neutrino Detection with ^{205}Pb by Geochemical and Accelerator Mass Spectroscopical Measurement, Morinaga, H. A271 (1988) 256
New possibilities for the geochemical ^{81}Br–^{81}Kr solar neutrino experiment, Kuzminov, V.V., A.A. Pomansky and V.L. Chihladze A271 (1988) 257
Determination of erosion rates with cosmic ray produced radioisotopes, Heinzl, J., G. Korschinek, H. Morinaga, E. Nolte, E. Preisenberger and A. Urban A271 (1988) 259
Experimental determination of uranium and thorium in Allchar ore, Ljubičić, A., M. Krčmar, S. Kaučić and B.A. Logan A271 (1988) 262
Taking a germanium detector down into the shaft of the thallium mine: What is the relevance to the solar neutrino flux determination via ^{205}Pb?, Aničin, I.V., P.R. Adžić, Dj. Krmpotić, A.H. Kukoč, R. Vukanović and M. Župančić A271 (1988) 264
Determination of lead concentration in Allchar lorandite, Preisenberger, E., G. Korschinek, E. Nolte and H. Morinaga A271 (1988) 266

Section III. Transition probabilities

Measurement of low energy neutrino absorption probability in thallium 205, Freedman, M.S. A271 (1988) 267
Studies of radioactive decays of completely ionized nuclei in a heavy ion storage ring, Kienle, P. A271 (1988) 277
Shell-model study of the first forbidden $^{205}Tl \rightarrow {}^{205}Pb$ transition and solar neutrino detection, Ogawa, K. and K. Arita A271 (1988) 280

Section IV. Geology, mining and chemistry

The Allchar Tl–As–Sb deposit, Yugoslavia and its specific metallogenic features, Janković, S. A271 (1988) 286
Lorandite from Allchar – A low energy solar neutrino dosimeter, Pavićević, M.K A271 (1988) 287
Crven Dol Tl deposit in Allchar: Mineralogical investigation, chemical composition of Tl minerals and genetic implications, Pavićević, M.K. and A. El Goresy A271 (1988) 297
The possibility of concentrating thallium minerals from the Allchar deposit, Salatić, D. and S. Deušić A271 (1988) 301
The crystallochemical behaviour of thallium and lead in the lorandite-type sulfosalts, Balić Žunić, T. and S. Ščavničar A271 (1988) 304
Local electron density models for Tl to Pb conversion in lorandite, Gržetić, I. A271 (1988) 308
Major and trace elements in some minerals and ore from Crven Dol, Allchar, Palme, H., M.K. Pavićević and B. Spettel A271 (1988) 314
A chemical treatment of ore from the Crven Dol deposit from Allchar, Bugarski, P., D. Veselinović and M.K. Pavićević A271 (1988) 320
Determination of thallium in ore samples from Allchar by atomic absorption spectrometry, Stafilov, T., T. Todorovski, B. Grozdanova and Lj. Spandževa A271 (1988) 321

Section V. Detection techniques

On isobar separation and accelerator mass spectrometry of ^{205}Pb, Henning, W. and D. Schüll A271 (1988) 324
A study of different ion sources for use in the ^{205}Pb experiment, Korschinek, G., J. Sellmair, A. Urban and M. Müller A271 (1988) 328
Low temperature calorimeters, Von Feilitzsch, F., T. Hertrich, H. Kraus, Th. Peterreins, F. Pröbst and W. Seidel A271 (1988) 332

Geometric efficiencies of circular detector and surface source arrangements – Numerical solution and experimental verification, Wilson, O.J. and S.A. Short A271 (1988) 644
The application of an image intensifier to atmospheric Cherenkov gamma ray astronomy, Mattox, J.R. A271 (1988) 652
Dose measuring system for boron neutron capture therapy, Matsumoto, T. and O. Aizawa A271 (1988) 662
Multielement imaging in computerised X-ray tomography, Fryar, J., K.J. McCarthy and A. Fenelon A271 (1988) 671
Dosimetry of a nearly monoenergetic 6 to 7 MeV photon source by NaI(Tl) scintillation spectrometry, Duvall, K.C., S.M. Seltzer, C.G. Soares and B.W. Rust A272 (1988) 866
Underground neutron flux measurement, Rindi, A., F. Celani, M. Lindozzi and S. Miozzi A272 (1988) 871
Experimental determination of relative light conversion factors of TLD-100 for protons with energies from 2.0 to 9.0 MeV, Schmidt, P., J. Fellinger, J. Henniger and K. Hübner A272 (1988) 875
In-flight energy calibration for the X-ray and gamma-ray spectrometers on the solar-A satellite, Yoshimori, M. and K. Okudaira A272 (1988) 880
Indium phosphide particle detectors for low energy solar neutrino spectroscopy, Lund, J.C., F. Olschner, F. Sinclair and M.R. Squillante A272 (1988) 885
Comparison of synchrotron and laser sources in X-ray contact microscopy of metal-contaminated biological tissue, Richards, K.S., A.D. Rush, D.T. Clarke and W.J. Myring A272 (1988) 889
Radioassay of dual-labeled samples by sequential Cherenkov counting and liquid scintillation efficiency tracing technique, Fujii, H. and M. Takiue A273 (1988) 377
Absolute neutron emission rate measurement of a ^{252}Cf source by the manganous sulfate bath method, Hwang, S-T. and K.J. Lee A273 (1988) 381
The transmittance by a hollow specularly reflecting cylindrical light pipe of isotropically incident radiation, Nutter, S.L., C.R. Bower, M.W. Gebhard and R.M. Heinz A273 (1988) 389
Studies of bis-MSB wavelength shifter for application in a supernova neutrino detector, Boivin, L.P. and D.S. Hanna A273 (1988) 397
Use of plexiglas sheets coated with wavelength-shifter dyes for detection of atmospheric Cherenkov radiation. A new technique for gamma ray astronomy at energies of $\sim 10^{13} - 10^{14}$ eV, Apte, A.R., S.G. Bhargavi, N.V. Gopalakrishnan, M.R. Rajeev, T. Selvankumaran, B.V. Sreekantan and S.C. Tonwar A273 (1988) 403
Proton computed tomography with a 250 MeV pulsed beam, Takada, Y., K. Kondo, T. Marume, K. Nagayoshi, I. Okada and K. Takikawa A273 (1988) 410

Comments on "ESR dosimetry for atomic bomb survivors and radiologic technologists" (*Letter to the Editor*), Aldrich, J.E. and B. Pass A273 (1988) 451
Neutron yields from thick Be targets bombarded with deuterons or protons, Brede, H.J., G. Dietze, K. Kudo, U.J. Schrewe, F. Tancu and C. Wen A274 (1989) 332
Nuclide identification of β-emitter by a double ratio technique using a liquid scintillation counter, Takiue, M., T. Nakate and H. Fujii A274 (1989) 345
Double peak effect in microdosimetric proportional counters and its interpretation, Bednarek, B., P. Olko and J. Booz A274 (1989) 349
Proportional counter for low-level ^{241}Pu measurement, Winkler, R. and G. Rosner A274 (1989) 359
A balloon-borne coded aperture telescope for low-energy gamma-ray astronomy, Dunphy, P.P., M.L. McConnell, A. Owens, E.L. Chupp, D.J. Forrest and J. Googins A274 (1989) 362
A system for dual energy microtomography of bones, Engelke, K., M. Lohmann, W.-R. Dix and W. Graeff A274 (1989) 380
A cosmic-ray counter telescope to search for fractionally charged particles, Yamashita, Y., T. Wada, M. Tsuruda, H. Miyai, I. Yamamoto, T. Tomiyama, N. Takahashi, K. Saito and O. Saavedra A274 (1989) 584
A derivation of the electron mass scattering power for electron dose calculations, McParland, B.J. A274 (1989) 592
Radon transport in an activated charcoal canister, Wilson, O.J. A275 (1989) 163
An air attenuation correction factor for use with long counters, Croft, S. and D.R. Weaver A275 (1989) 172
Design and performance in orbit of the Bristol cosmic ray detector on the Ariel VI satellite, Fowler, P.H., A.M. Gay, M.R.W. Masheder, R.T. Moses, R.N.F. Walker and A. Worley A275 (1989) 175
Comparison of calculated and measured neutron sensitivities of a polyethylene-covered ionisation chamber, Seifert, H., J. Henniger and B. Dörschel A275 (1989) 411
Performance of a simple multiparameter data acquisition system at balloon altitudes, Owens, A., D. Bhattacharya, E.L. Chupp, J. Googins and C.J. Seymour A275 (1989) 416
Using a computed tomography scanner for nonmedical applications, Cesareo, R. A275 (1989) 420
Computer simulations for a cosmic ray heavy ion telescope, Munakata, K., T. Kohno, T. Imai and M. Matsuoka A276 (1989) 306
Energy determination of electron–photon showers induced by heavy cosmic-ray primaries, Fujinaga, T., M. Ichimura, Y. Niihori and T. Shibata A276 (1989) 317
An inexpensive, hard X-ray imaging spectrometer for use in X-ray astronomy and atomic physics, Hailey, C.J., F. Harrison, J.H. Lupton and K.-P. Ziock A276 (1989) 340
Scintillating optical fiber trajectory detectors, Davis, A.J., P.L. Hink, W.R. Binns, J.W. Epstein, J.J. Connell, M.H. Israel, J. Klarmann, V. Vylet, D.H. Kaplan and S. Reucroft A276 (1989) 347
Single photon light detector for deep ocean applications, Matsuno, S., J. Babson, J.G.Learned, D. O'Connor, P.K.F. Grieder, T. Kitamura, K. Mitsui, Y. Ohashi, A. Okada, J. Clem, M. Webster and C. Wilson A276 (1989) 359
A fast, low power consumption readout system for a space based calorimeter, Basini, G., F. Bongiorno, A. Morselli, M. Occhigrossi, M. Ricci, P. Spillantini, A. Codino, C. Grimani, M. Menichelli, E. Rongoni, I. Salvatori, P. Picozza, L. De Bortoli and C. Bianchi A276 (1989) 367
A rugged 1700 m^2 proportional tube array, Oliver, W.P., B. Saitta, D. Benjamin. T. Kafka, J. Kochocki, W.A. Mann, L. McMaster, R.H. Milburn, A. Napier, J. Schneps and N. Sundaralingam A276 (1989) 371
The measurement of the gamma-ray field accompanying neutron beams from a particle accelerator by means of a Geiger–Müller counter, Croft, S. and D.R. Weaver A276 (1989) 614
An experiment to search for ultra high energy γ-ray sources from the South Pole, Smith, N.J.T., J.C. Perrett, M.A. Pomerantz, A.M. Hillas, P.A. Ogden, M. Patel, R.J.O. Reid and A.A. Watson A276 (1989) 622
A drift chamber telescope for heavy ion track detection with high spatial resolution, Hof, M., J. Isbert, K.D. Mathis, M. Simon, T.G. Guzik, J.W. Mitchell, J.P. Wefel and H.J. Crawford A276 (1989) 628
Isotopic identification of engetic heavy nuclei using dE/dx vs total energy in a high pressure gas ionization detector, Leske, R.A., P. Meyer, D. Ruffolo, C. Smith and M.E. Wiedenbeck A277 (1989) 627
Soft X-ray energy resolution and background rejection in a driftless gas scintillation proportional counter, Simons, D.G. and P.A.J. De Korte A277 (1989) 642
A new microcalorimeter concept for photon counting X-ray spectroscopy, Silver, E.H., S.E. Labov, F. Goulding, N. Madden, D. Landis and J. Beeman A277 (1989) 657
Calibration of an NE213 scintillator up to 60 MeV for in situ spectrometry in a neutron cancer therapy facility, Crout, N.M.J., J.G. Fletcher and M.C. Scott A277 (1989) 664
Measurement of the activity of radioactive samples in Marinelli beakers, Debertin, K. and Ren Jianping A278 (1989) 541
The equilibrium factor F between radon and its daughters, Planinić, J. and Z. Faj A278 (1989) 550
Optimizing the design of very high energy gamma ray telescopes, Patterson, J.R. and A.M. Hillas A278 (1989) 553
Measurement of underground gamma ray spectra for solar neutrino studies, Bakich, A.M., R.C. Cederblad, P.R. Gerhardy, M. Omori, L.S. Peak and R.L. Walsh A278 (1989) 565
On the sensitivity of neutron monitors to solar neutrons, Debrunner, H., E.O. Flückiger and P. Stein A278 (1989) 573
Xenon-based Penning mixtures for proportional counters, Ramsey, B.D. and P.C. Agrawal A278 (1989) 576
A muon detector for a large air shower array, Sinclair, D. A278 (1989) 583
Status of BGO-avalanche photodiode detectors for spectroscopic and timing measurements, Lecomte, R., C. Martel and C. Carrier A278 (1989) 585

A gaseous detector for high-accuracy autoradiography of radioactive compounds with optical readout of avalanche positions, Dominik, W., N. Zaganidis, P. Astier, G. Charpak, J.C. Santiard, F. Sauli, E. Tribollet, A. Geissbühler and D. Townsend A278 (1989) 779
The standardization of plutonium-241 and nickel-63, Coursey, B.M., L.L. Lucas, A. Grau Malonda and E. Garcia-Toraño A279 (1989) 603
Cosmic dust investigations. I. PVDF detector signal dependence on mass and velocity for penetrating particles, Simpson, J.A., D. Rabinowitz and A.J. Tuzzolino A279 (1989) 611
Cosmic dust investigations. II. Instruments for measurement of particle trajectory, velocity and mass, Simpson, J.A. and A.J. Tuzzolino A279 (1989) 625
"TIVAL" – A development in spectrum tailoring for intermediate-energy neutron beam production (*Letter to the Editor*), Constantine, G. A279 (1989) 675
The photon energy dependence of radiophotoluminescent glass dosimeters over the range 17 keV to 6.8 MeV, Croft, S. and D.R. Weaver A280 (1989) 123
An electronics circuit for a pulsed adsorbed dose calorimeter, Kubo, H., Y. Kageyama and A. Perec A280 (1989) 133

Proceedings of the Fourth International Symposium on Radiation Physics (São Paulo, Brazil, October 3–8, 1988)

Section I. Fundamental processes in radiation physics

Effects of nuclear decay on atomic electron rearrangements, Isozumi, Y. A280 (1989) 151
Photoionization studies of atoms and molecules using synchrotron radiation, Lindle, D.W. A280 (1989) 161
Internal bremsstrahlung in electron capture and neutrino mass, Logan, B.A. A280 (1989) 167
Photoionization cross sections: present status and future needs, Manson, S.T. A280 (1989) 173
The use of the form factor formalism in crystallography, Creagh, D.C. A280 (1989) 180
Photoionization of atoms and ions, Dong, Qi, Y. Kuang and R.H. Pratt A280 (1989) 189
Expectation of LET_∞ for a tritium beta particle, Saigusa, T. and S. Shimizu A280 (1989) 195
Rayleigh scattering from ions near threshold, Roy, S.C., S.K. Sen Gupta, L. Kissel and R.H. Pratt A280 (1989) 198
Double atomic-field bremsstrahlung from thick targets, Lehtihet, H.E. and C.A. Quarles A280 (1989) 202
Small-angle coherent gamma-ray scattering at 662 keV for Pb and Sn, Bradley, D.A., C.S. Chong, A.A. Tajuddin, A. Shukri and A.M. Ghose A280 (1989) 207
Effect of the X-ray scattering anisotropy on the diffusion of photons in the frame of the transport theory, Fernández, J.E., V.G. Molinari and M. Sumini A280 (1989) 212
Measurements of photoelectric cross sections for X-ray and γ-ray photons at K, L_1 and L_3 edges in Ce, Gd, Dy, Er, Yb and Pb: an analysis of the derived shell ratios, Rao, D.V. A280 (1989) 222
Range and stopping power for slowing down of electrons in matter, Molinari, V. and T. Trombetti A280 (1989) 226

Section II. Radiation sources and detectors

Utilization of intense neutron generators in science and technology, Csikai, J. A280 (1989) 233
Recent developments in detector research, Pröbst, F., H. Kraus, Th. Peterreins and F. Von Feilitzsch A280 (1989) 251
Development and application of the electrostatic accelerator, Sala, O. A280 (1989) 263
Neutron energy spectrum measurements of neutron sources with an NE-213 spectrometer, Coelho, P.R.P., A.A. Da Silva and J.R. Maiorino A280 (1989) 270
Evaluation of neutron thermalization parameters and benchmark reactor calculations using a synthetic scattering function for molecular gases, Gillette, V.H., N.E. Patiño, J.R. Granada and R.E. Mayer A280 (1989) 273
Cryogenic resonance-electron Mössbauer spectroscopy with a helium-filled proportional counter, Katano, R., T. Fujii, T. Kobayashi, K. Fukumura and Y. Isozumi A280 (1989) 285
Novel techniques for designing gas proportional scintillation counters for X-ray spectrometry, Dos Santos, J.M.F., T.H.V.T. Dias, S.D.A. Reyes Cortes and C.A.N. Conde A280 (1989) 288
Z-identification of charged particles by signal risetime in silicon surface barrier detectors, England, J.B.A., G.M. Field and T.R. Ophel A280 (1989) 291
The assessment of geometrical effects on Compton profile measurements, Gigante, G.E. and A.L. Hanson A280 (1989) 299
Range-to-cone-length relations for light ions in ^{39}Cr, Gil, L.R. and A. Marques A280 (1989) 301
Multiple-scattering resonance self-shielding factors in foils, Do Carmo Lopes, M. and J. Molina Avila A280 (1989) 304
New ionization chambers for beta and X-radiation, Da Penha Pereira Albuquerque, M. and L.V. Ehlin Caldas A280 (1989) 310
A study of the effect of natural radiation damage in a zircon crystal using thermoluminescence, fission track etching and X-ray diffraction, Amin, Y.M. A280 (1989) 314
Simultaneous determination of dose and time elapsed since irradiation using $CaSO_4$:Dy thermoluminescent dosimeters, Furetta, C. and J. Azorín A280 (1989) 318

Optimisation of the time-of-flight geometry for fast neutrons, Ghose, A.M. A280 (1989) 322
A coincidence system for radionuclide standardization using surface barrier detectors, Koskinas, M.F. and M.S. Dias A280 (1989) 327

Section III. Uses of radiation in fundamental research

X-rays and charge-exchange collisions, Montenegro, E.C. A280 (1989) 332
Inelastic X-ray scattering, Schülke, W. A280 (1989) 338
Gamma-ray astronomy at the highest energies, Weekes, T.C. A280 (1989) 349
Real and virtual radiation, Wolynec, E. A280 (1989) 358
K X-ray emission cross sections by proton bombardment, Rosato, E. A280 (1989) 365
M-subshell ionization of U by light-ion bombardment, Jesus, A.P. and J.P. Ribeiro A280 (1989) 370
Comparison between measurements on Rayleigh scattering and form-factor theories for $1\ \text{Å}^{-1} \leqslant x \leqslant 50\ \text{Å}^{-1}$, Gonçalves, O.D., S. De Barros and J. Eichler A280 (1989) 375
A study of molecular correlations observed in the small-angle photon scattering distributions of 60 keV photons interacting with low-atomic-number media, Bradley, D.A., D.R. Dance, S.H. Evans and C.H. Jones A280 (1989) 380
Angular correlation of double internal bremsstrahlung in the electron capture decay of ^{55}Fe, Dobrinić, J., N. Orlić, S. Kaučić, D. Kekez, A. Ljubičić and B.A. Logan A280 (1989) 384
X-ray spectral determination by successive modifications of the beam intensity, Mainardi, R.T. and R.A. Barrea A280 (1989) 387
A new method for the direct measurement of the energy absorption coefficient of gamma rays, Bradley, D.A., C.S. Chong, A. Shukri, A.A. Tajuddin and A.M. Ghose A280 (1989) 392
Nuclear fusion between heavy ions by the gamma-ray spectroscopy method, Gomes, P.R.S., T.J.P. Penna, R. Liguori Neto, J.C. Acquadro, C. Tenreiro, P.A.B. Freitas, E. Crema, N. Carlin Filho and M.M. Coimbra ... A280 (1989) 395
Measurement of changes in viscosity in polymers with gamma-ray dose using a differential viscometer, Santra, L., D. Bhaumik and S.C. Roy A280 (1989) 402
Mechanism of electric charge formation in irradiated polyethylene, Gromov, V.V. and O.V. Prokopyev A280 (1989) 405
Exoelectron emission from ion-implanted MgO single crystals, Chubaci, J.F.D. and S. Watanabe A280 (1989) 410
Stability of defects and thermoluminescence in some doped KCl crystals, Mdebuka, A.M. and J.R. Seretlo A280 (1989) 415
Electron measurements in the lower atmosphere near the South-Atlantic magnetic anomaly, Bui Van, N.A., I.M. Martin, A. Turtelli Jr., Yu.I. Stozhkov, V.V. Sibikin and M.I. Fradkin A280 (1989) 419
Excited levels in ^{213}Po and ^{209}Pb fed by β-decays of ^{213}Bi ($T_{1/2}$ = 45.6 min) and ^{209}Tl ($T_{1/2}$ = 2.2 min), Kouassi, M.C., A. Hachem, C. Ardisson and G. Ardisson A280 (1989) 424
Elastic and inelastic scattering of 59.54 keV gamma rays, Varier, K.M. and M.P. Unnikrishnan A280 (1989) 428
Influence of Na deposition on convoy-electron emission, Sanchez, E.A. A280 (1989) 433
Thermoluminescent parameters from a Brazilian calcite glow curve, De Lima, J.F., E.M. Yoshimura and E. Okuno A280 (1989) 436

Section IV. Radiation in biomedicine and in environmental science

Radiobiological effects of high-LET particles: DNA strand breaks, Chatterjee, A. A280 (1989) 439
External and internal dosimetry of persons exposed to thorium and application of neutron activation analysis to study its biokinetic behaviour, Sunta, C.M., H.S. Dang, D.D. Jaiswal, R.C. Sharma, D.J. Mehta and P.P.V.J. Nambiar A280 (1989) 449
Trace-element analysis in environmental sciences, Valković, V. and G. Moschini A280 (1989) 459
Environmental radioactivity, Eisenbud, M. and A.S. Paschoa A280 (1989) 470
The use of electron accelerators for analysis of induced fission tracks, Arruda-Neto, J.D.T. A280 (1989) 483
Measurement of fluorine total concentration in dental enamel using fast-neutron activation, Mouadili, A., J. Vernois and D.B. Isabelle A280 (1989) 485
Trace uranium analysis by isotope dilution alpha and mass spectrometry and comparison with other techniques, Shihomatsu, H.M. and S.S. Iyer A280 (1989) 488
Size distribution of airborne particulates in monazite dust, Dias Da Cunha, K.M.A., S.M.M. Carvalho, C.V. Barros Leite, G.B. Baptista and A.S. Paschoa A280 (1989) 492
Model predictions and analysis of enhanced biological effectiveness at low dose rates, Watt, D.E., C.E. Sykes and A.-R.S. Younis A280 (1989) 495
X-ray measurements in the atmospheric environment of Brazil, Pinto Jr., O. and W.D. Gonzalez A280 (1989) 499
Atmospheric radon measurements by electrostatic precipitation, Pereira, E.B. and H.E. Da Silva A280 (1989) 503
On indoor radon contamination monitoring with SSNTDs: experimental results concerning plate-out and self-plate-out effects, Bigazzi, G., J.C. Hadler and S.R. Paulo A280 (1989) 506
Thermoluminescence dating of calcite deposits in a Brazilian cave, Tatumi, S.H., L.R. Batista, S. Watanabe and M. Matsuoka A280 (1989) 510
Determination of the counting efficiency of phoswich detectors for the assessment of internal contamination in lungs and lymph nodes by using a mathematical model, Righetti, M.A., D. Hernandez and F. Spano A280 (1989) 514

Section V. Radiation in technology

Scattered X-ray beam nondestructive testing, Harding, G. and J. Kosanetzky A280 (1989) 517
Biological control on the vertical flux of artificial radionuclides in marine waters, Fowler, S.W. A280 (1989) 529
Some uses of radioisotope techniques in Portugal, Salgado, J., F.G. Carvalho, C. Oliveira and A. Ambrósio A280 (1989) 530
Compton scattering of gamma-rays as surface inspection technique, Anjos, M.J., R.T. Lopes and J.C. Borges .. A280 (1989) 535
Influence of the propagation-plane inclination angle on the fluorescent intensity: study of the emission of small-thickness samples and determination of the maximum emission angle, Fernández, J.E. and M. Rubio . A280 (1989) 539
A method of XRF spectrochemical analysis based on some geometrical properties of the X-ray fluorescent intensity, Fernández, J.E., M. Rubio and J.H. Sánchez A280 (1989) 546
Characterization of semiconductor processing by ^{119}Sn conversion electron Mössbauer spectroscopy, Stedile, F.C., W.H. Schreiner, P.H. Dionísio and I.J.R. Baumvol A280 (1989) 552
^{57}Fe CEMS characterization of iron–aluminum thin-film alloys, Vasconcellos, M.A.Z., S.R. Teixeira, P.H. Dionisio, W.H. Schreiner and I.J.R. Baumvol A280 (1989) 557
Diffusion enhancement in Fe–Ni alloys during fast-neutron irradiation, Sciani, V. and G. Lucki A280 (1989) 564

Section VI. Radiation in energy research

Long-term nuclear waste management:present status and alternatives, Schapira, J.P. A280 (1989) 568
Study of α-radiation damage in a steel for fusion technology, Coppola, R., S. Omarini, G. Albertini, R. Caciuffo, P. Mariani and F. Rustichelli A280 (1989) 583
A spectroscopic study of radiation produced in a theta-pinch, Trigueiros, A., M. Machida, C.J.B. Pagan and J.G. Reyna-Almandos A280 (1989) 589
Electron temperature measurements in the TBR-1 tokamak by the two-foil absorbing method, Vannucci, A., I.C. Nascimento, I.C. Oliveira, E.K. Sanada and K.A. De Oliveira A280 (1989) 593
Optimization of the implosion phase on TC-I by light emission analysis, Aramaki, E.A., P. Porto, L. Berni, R.Y. Honda, M. Ueda, I. Doi and M. Machida A280 (1989) 597

Synchrotron Radiation Research

A new protein crystallography station on the SRS wiggler beamline for very rapid Laue and rapidly tunable monochromatic experiments: I. Design principles, ray tracing and heat calculations, Brammer, R.C., J.R. Helliwell, W. Lamb, A. Liljas, P.R. Moore, A.W. Thompson and K.A. Rathbone A271 (1988) 678

Proceedings of the Ninth Free Electron Laser Conference (Williamsburg, Virginia, 14–18 September 1987)

Section I. Introduction

History of the ubitron, Phillips, R.M. A272 (1988) 1

Section II. Experiment

II(a). FEL project reviews

First operation of the Rocketdyne/Stanford free electron laser, Bhowmik, A., M.S. Curtin, W.A. McMullin, S.V. Benson, J.M.J. Madey, B.A. Richman and L. Vintro A272 (1988) 10
Experimental results of a high gain microwave FEL operating at 140 GHz, Throop, A.L., W.M. Fawley, R.A. Jong, T.J. Orzechowski, D. Prosnitz, E.T. Scharlemann, R.D. Stever, G.A. Westenskow, D.B. Hopkins, A.M. Sessler, S.G. Evangelides and K.E. Kreischer A272 (1988) 15
Status report on the Stanford Mark III infrared free electron laser, Benson, S.V., J. Schultz, B.A. Hooper, R. Crane and J.M.J. Madey A272 (1988) 22
The present status of FEL research work in China, Du, X.W., W. Ding, Y. Su, C. Chu and E.S. Fu A272 (1988) 29
The SCA/FEL program: operation in the infrared, visible and ultraviolet, Rohatgi, R., H.A. Schwettman, T.I. Smith and R.L. Swent A272 (1988) 32
Vanderbilt University FEL Center for biomedical and materials research, Edwards, G.S. and N.H. Tolk A272 (1988) 37
Design considerations of the Beijing free electron laser project, Xie Jialin, Zhuang Jiejia, Wang Youzhi and Zhong Shicai A272 (1988) 40
An FEL project at IAE, Liu Weiren, Wu Tielong, Yang Tianlu, Weng Zhenshan and Ma Youwu A272 (1988) 50
The Darmstadt near-infrared free electron laser project, Aab, V., K. Alrutz-Ziemssen, H.-D. Gräf, A. Richter and A. Gaupp A272 (1988) 53

The FEL storage ring project DELTA, Wille, K. A272 (1988) 59
Final report on the LELA experiment, Cavallo, N., F. Cevenini, M.R. Masullo, M. Castellano, S. Guiducci, P. Patteri, M.A. Preger and M. Serio A272 (1988) 64
Coherent harmonic generation in the vacuum ultraviolet spectral range on the storage ring ACO, Prazeres, R., J.M. Ortega, C. Bazin, M. Bergher, M. Billardon, M.E. Couprie, M. Velghe and Y. Petroff A272 (1988) 68
The NBS/NRL free electron laser facility, Penner, S., R. Ayres, R. Cutler, P. Debenham, B.C. Johnson, E. Lindstrom, D. Mohr, J. Rose, M. Wilson, P. Sprangle and C.M. Tang A272 (1988) 73
The new UCSB compact far-infrared FEL, Ramian, G. and L. Elias A272 (1988) 81

II(b). FEL performance

Observations of gain and pressure tuning in a gas-loaded FEL, Fisher, A.S., R.H. Pantell, M.B. Reid, J. Feinstein, A.H. Ho, M. Özcan and H.D. Dulman A272 (1988) 89
Spatial distribution of visible coherent harmonics generated by the Mark III FEL, Carlson, K., W. Fann and J.M.J. Madey A272 (1988) 92
Experimental results of two stage harmonic generation with picosecond pulses on the Stanford Mark III FEL, Hooper, B.A., S.V. Benson, A. Cutolo and J.M.J. Madey A272 (1988) 96
Wiggler taper optimization for free electron laser amplifiers with moderate space-charge effects, Jong, R.A., E.T. Scharlemann and W.M. Fawley A272 (1988) 99
Experiment and theory on CO_2 laser powered wiggler and induction linac FEL, Mima, K., Y. Kitagawa, T. Akiba, K. Imasaki, S. Kuruma, N. Ohigashi, S. Miyamoto, S. Fujita, S. Nakayama, Y. Tsunawaki, H. Motz, T. Taguchi, S. Nakai and C. Yamanaka A272 (1988) 106
Near-millimeter free electron lasers with small period wigglers and sheet electron beams, Granatstein, V.L., T.M. Antonsen, Jr, J.H. Booske, W.W. Destler, P.E. Latham, B. Levush, I.D. Mayergoyz, D.J. Radack, Z. Segalov and A. Serbeto A272 (1988) 110
Enhanced performance from high-extraction-efficiency free electron lasers, Cover, R.A. and A. Bhowmik A272 (1988) 117
Output power enhancement of ac Raman free electron lasers, Yan, Y.T. A272 (1988) 120
Pulse compression in a free electron laser amplifier, Hartemann, F., K. Xu and G. Bekefi A272 (1988) 125
Far infrared Cherenkov free electron laser, Garate, E., R. Cherry and A. Fisher A272 (1988) 129
Preliminary results from a microwave-driven 100 μm wavelength Cherenkov FEL experiment, Walsh, J., C. Shaughnessy, R. Layman, G. Dattoli, G-P. Gallerano and A. Renieri A272 (1988) 132
Optical guiding in a Raman FEL: computation and experiment, Cai, S.Y., S.P. Chang, J.W. Dodd, T.C. Marshall and H. Tang A272 (1988) 136
Optical guiding measurements on the Mark III free electron laser oscillator, La Sala, J.E., D.A.G. Deacon and J.M.J. Madey A272 (1988) 141
A microwave FEL amplifier experiment, Su Yi, Huang Sunren, Chen Yutao, Shen Yuanfa, Fu Shuzhen, Liu Xishan, Li Zhenrong and Hu Kesong A272 (1988) 147
Sideband suppression by an intracavity optical filter in the Los Alamos free electron laser oscillator, Goldstein, J.C., B.E. Newnam and R.W. Warren A272 (1988) 150
The generation and suppression of synchrotron sidebands, Warren, R.W. and J.C. Goldstein A272 (1988) 155
Efficiency and sideband observations of a Raman FEL oscillator with a "tapered" undulator, Yee, F.G., T.C. Marshall and S.P. Schlesinger A272 (1988) 162
Optical properties of multilayer mirrors exposed to synchrotron radiation, Couprie, M.E., M. Billardon, M. Velghe, C. Bazin, M. Bergher, H. Fang, J.M. Ortega, Y. Petroff and R. Prazeres A272 (1988) 166
Injection locking experiment at the UCSB FEL, Amir, A., R.J. Hu, F. Kielmann, J. Mertz and L.R. Elias A272 (1988) 174

II(c). FEL beams, beam quality and beam transport

Conceptual designs of a 50 nm FEL oscillator and a 20–40 nm SASE amplifier, Goldstein, J.C., B.D. McVey and C.J. Elliott A272 (1988) 177
Design concept for a common rf accelerator driven free electron laser master oscillator/power amplifier, Bhowmik, A., J.M.J. Madey and S.V. Benson A272 (1988) 183
A high quality permanent-magnet wiggler for the Rocketdyne/Stanford infrared free electron laser, Curtin, M.S., A. Bhowmik, W.A. McMullin, S.V. Benson, J.M.J. Madey, B.A. Richman and L. Vintro A272 (1988) 187
Retractable-magnet hybrid undulator, Quimby, D.C., K.E. Robinson, R.G. Berger, S.C. Gottschalk, A.L. Pindroh, J.M. Slater and A.S. Valla A272 (1988) 192
Proposal for a compact FEL with electromagnetic-wave undulator, Gea-Banacloche, J., G.T. Moore, R.R. Schlicher, M.O. Scully and H. Walther A272 (1988) 199
Linac for a free electron laser oscillator: design consideration on the injector system, Kawarasaki, Y., M. Ohkubo, N. Shikazono and K. Mashiko A272 (1988) 206

Preliminary injector, accelerator, and beamline design for rf-linac-driven XUV free electron lasers, Carlsten, B.E. and K.C.D. Chan ... A272 (1988) 208
The lasertron rf generator for FEL applications, Tallerico, P.J. ... A272 (1988) 218
The Los Alamos photoinjector program, Sheffield, R.L., E.R. Gray and J.S. Fraser ... A272 (1988) 222
Development of a high energy crowbar for the Los Alamos free electron laser, Hornkohl, J.O. and M.T. Lynch ... A272 (1988) 227
High-power rf-pulsed modulators for the Los Alamos free electron laser, Johnson, W.J.D., M.T. Lynch, P.J. Tallerico, D.R. Keffeler and J.O. Hornkohl ... A272 (1988) 232
Optical transition radiation as a real-time, on-line diagnostic for free electron laser systems, Maruyama, X.K., R.B. Fiorito and D.W. Rule ... A272 (1988) 237
A compact beam position monitor for use inside a free electron laser wiggler, Kulke, B., H. Shay, F. Coffield and R. Holmes ... A272 (1988) 241
Emittance studies at the Los Alamos National Laboratory free electron laser, Carlsten, B.E., D.W. Feldman, A.H. Lumpkin, J.E. Sollid, W.E. Stein and R.W. Warren ... A272 (1988) 247
Limitations on the use of the pulsed-wire field measuring technique, Warren, R.W. ... A272 (1988) 257
Photoelectron sources: selection and analysis, Oettinger, P.E., R.E. Shefer, D.L. Birx and M.C. Green ... A272 (1988) 264

Section III. Theory

III(a). General theory

Gain in the gas-loaded FEL, Reid, M.B., J. Feinstein, R.H. Pantell and A.S. Fisher ... A272 (1988) 268
Corrections to "skewed" FEL expressions, McNeil, B.W.J. ... A272 (1988) 275
Scaling laws for saturation in free electron lasers, Garrison, J.C. and J. Wong ... A272 (1988) 279
Slippage and superradiance in the high-gain FEL, Bonifacio, R. and B.W.J. McNeil ... A272 (1988) 280
Nonlinear analysis and simulation of a millimeter range free electron laser with a helical quadrupole wiggler, Scharer, J., O. Eldridge, S.-F. Chang and N. Lam ... A272 (1988) 289
Relativistic quantum dynamics and quantum noise in short-wavelength free electron lasers, Gjaja, I. and A. Bhattacharjee ... A272 (1988) 293
Generation of squeezed radiation from a free electron laser, Gjaja, I. and A. Bhattacharjee ... A272 (1988) 297
The chirped-pulse free electron laser, Moore, G.T. ... A272 (1988) 302
Variational solution of the wave equation for a high gain FEL and a finite wiggling radius, Luchini, P. and S. Solimeno ... A272 (1988) 311
Linear theory of generalized circular free electron lasers, Saito, H. and Yin Yuan Zhao ... A272 (1988) 319
Integral formulation for a waveguide FEL, Sternbach, E. ... A272 (1988) 323
A quantum-electronic approach to classical oscillators with periodic structures. Part I: The free electron laser, Ma, K.B., F. Pang and P.-T. Ho ... A272 (1988) 326
Double-coherent-state description of a one-particle FEL, Lee, C.T. ... A272 (1988) 330
Effects of bending on free electron laser performance, Luchini, P. and H. Motz ... A272 (1988) 334
Adaptive eigenmode expansion for 3-D FEL simulations, Bourianoff, G., B. Moore, M. Rosenbluth, F. Waelbroeck, H. Waelbroeck and H.V. Wong ... A272 (1988) 340
Limiting factors in an inverse free electron laser, Cutolo, A., L. Carlomusto and S. Solimeno ... A272 (1988) 348
A review of the theory of pulse propagation in the long bunch low gain regime, Dattoli, G., T. Hermsen, L. Mezi, A. Torre and J.C. Gallardo ... A272 (1988) 351
Progress toward a soft X-ray FEL, Pellegrini, C. ... A272 (1988) 364
Long-pulse FELs as sources of monochromatic radiation, Kimel, I. and L.R. Elias ... A272 (1988) 368
Regions of stability of FEL oscillators, Levush, B. and T.M. Antonsen, Jr ... A272 (1988) 375
A linear three-dimensional model for free electron laser amplifiers, Jerby, E. and A. Gover ... A272 (1988) 380
Parameterizing physical effects in free electron lasers, Colson, W.B. and J. Blau ... A272 (1988) 386

III(b). Beam transport and sidebands

Comparison of sideband growth in tapered and untapered free electron lasers, Hafizi, B., A. Ting, P. Sprangle, C.M. Tang and I. Haber ... A272 (1988) 392
Validity of 1D free electron laser sideband models, Sharp, W.M. and S.S. Yu ... A272 (1988) 397
Analysis of sideband spectra from untapered undulator using analytical technique, Takeda, H. ... A272 (1988) 404
Spectral evolution equation for the sideband instability in a free electron laser oscillator, Channell, P.J. ... A272 (1988) 421
Electron orbits in phase space and design considerations of variable parameter wigglers, Ding, W. ... A272 (1988) 426
Transfer matrices and synchrotron integrals for arbitrary dipole fields, Ziemann, V. ... A272 (1988) 432
Betatron oscillations in a free electron laser, Yu, L.-H. and S. Krinsky ... A272 (1988) 436
An FEL driven by transverse gradients in the wiggler field, Latham, P.E. ... A272 (1988) 442
Stochastic electron detrapping in FELs caused by sidebands, Riyopoulos, S. and C.M. Tang ... A272 (1988) 448

The axial-velocity distribution function and the longitudinal susceptibility of an e-beam in a planar wiggler FEL, Jerby, E. ... A272 (1988) 457

III(c). Optics and optical guiding

The stability of free electron lasers against filamentation, Barnard, J.J., E.T. Scharlemann and S.S. Yu ... A272 (1988) 467
Optical guiding in the separable beam limit, Antonsen, Jr, T.M. and B. Levush ... A272 (1988) 472
Self-focusing of laser pulses in magnetized relativistic electron beams, Whang, M.H. and S.P. Kuo ... A272 (1988) 477
"Diffraction-free" optical beams in inverse free electron laser accelerators, Cai, S.Y., A. Bhattacharjee and T.C. Marshall ... A272 (1988) 481
Intrinsic corrections to optical guiding in a free electron laser, Chen, Y.-J., E.T. Scharlemann and A.M. Sessler ... A272 (1988) 485
Optical guiding in an FEL with full account of electron wiggling and 3D propagation, Chen, Y.-J., S. Solimeno and L. Carlomusto ... A272 (1988) 490
Q-switched optical cavities for free electron lasers, Benson, S.V., A. Cutolo, J.M. Madey and J.F. Schultz ... A272 (1988) 499
Gas lenses for gas loaded free electron lasers, Cutolo, A. and S. Solimeno ... A272 (1988) 501
Transverse optical mode trapping in a free electron laser, Amir, A. ... A272 (1988) 505
Integral equation for the laser field: multimode description of a free electron laser oscillator, Gallardo, J.C., G. Dattoli, A. Renieri and T. Hermsen ... A272 (1988) 516
Transverse mode control in high gain free electron lasers with grazing incidence, unstable ring resonators, Bhowmik, A., S. Bitterly, R.A. Cover, P. Kennedy and R.H. Labbe ... A272 (1988) 524
The guided mode expansion in free electron lasers, Xie, M., D.A.G. Deacon and J.M.J. Madey ... A272 (1988) 528
Passive laser beam guidance in periodic system of lenses with holes, Żakowicz, W. and A. Błędowski ... A272 (1988) 532
Guided radiation beams in free electron lasers, Sprangle, P., A. Ting, B. Hafizi and C.M. Tang ... A272 (1988) 536
Reflection matrix for optical resonators in FEL oscillators, Riyopoulos, S., P. Sprangle, C.M. Tang and A. Ting A272 (1988) 543
Optical bistability in a relativistic electron beam, Bonifacio, R. and L. De Salvo Souza ... A272 (1988) 551

Section IV. Simulation

Three-dimensional simulation of free electron lasers with planar wigglers, Freund, H.P., H. Bluem and C.L. Chang ... A272 (1988) 556
Three dimensional simulation of high harmonic transverse optical klystron, Dutt, S.K., A. Friedman, A. Gover and C. Pellegrini ... A272 (1988) 564
Wiggler-enhanced electron cyclotron autoresonance maser, Kho, T.H. and A.T. Lin ... A272 (1988) 574
Harmonic content in a planar wiggler based free electron laser amplifier, Bluem, H., H.P. Freund and C.L. Chang ... A272 (1988) 579
Harmonic power implications on free electron laser mirror design, Schmitt, M.J., C.J. Elliott and B.E. Newnam ... A272 (1988) 586
Initial electron distributions for free electron lasers generated by injector and accelerator simulations, Boyd, J.K., W.B. Colson and E.T. Scharlemann ... A272 (1988) 590
A microwave FEL code using waveguide modes, Byers, J.A. and R.H. Cohen ... A272 (1988) 595
Reducing sensitivity to errors in free electron laser amplifiers, Shay, H.D. and E.T. Scharlemann ... A272 (1988) 601
Three-dimensional magnetic engineering: the programs MAGNUS and EPILOG, Fan, M. and S. Pissanetzky ... A272 (1988) 606
Mode–media interactions in an FEL, Gitomer, S.J., S.C. Bender and B.D. McVey ... A272 (1988) 610

Ray tracing of curved-crystal X-ray optics for spectroscopy on fast ion beams, Beyer, H.F. and D. Liesen ... A272 (1988) 895
A two mirror device for harmonic rejection, Sainctavit, Ph., J. Petiau, A. Manceau, R. Rivallant, M. Belakhovsky and G. Renaud ... A273 (1988) 423
Circularly polarization line filters in the soft X-ray range, Goedkoop, J.B., J.C. Fuggle, B.T. Thole, G. Van der Laan and G.A. Sawatzky ... A273 (1988) 429
Focusing properties of a Bragg–Fresnel lens in the white spectrum of synchrotron radiation, Aristov, V.V., Yu.A. Basov, G.N. Kulipanov, V.F. Pindyurin, A.A. Snigirev and A.S. Sokolov ... A274 (1989) 390
Polarization factor measurements of flat crystals using synchrotron radiation, Wohrer, K., A. Touati, P. Chevallier, A. Chetioui, J.P. Rozet, P. Bouisset and J.X. Wang ... A274 (1989) 394
A high efficiency multistage collector for a low quality electron beam recovery, Boscolo, I., G. Brautti, V. Stagno and V. Variale ... A275 (1989) 184
A universal classification of optimal undulator types and parameters for arbitrary storage ring environments, Tatchyn, R. ... A275 (1989) 430
Experimental resolution in soft X-ray monochromators, Kortboyer, S.W., J.B. Goedkoop, F.M.F. De Groot, M. Grioni, J.C. Fuggle and H. Petersen ... A275 (1989) 435
An ultrafast mechanical shutter for X-rays, LeGrand, A.D., W. Schildkamp and B. Blank ... A275 (1989) 442
An X-ray spectrometer for Compton scattering experiments with synchrotron radiation, Shiotani, N., N. Sakai, F. Itoh, M. Sakurai, H. Kawata, Y. Amemiya and M. Ando ... A275 (1989) 447

Solid surface analysis beamline with a grating/crystal monochromator at the photon factory (*Letter to the Editor*), Kawamura, T., S. Maeyama, M. Oshima, Y. Ishii and T. Miyahara A275 (1989) 462
Energy-dispersive powder diffraction at the SRS, Clark, S.M. A276 (1989) 381
Tuning and slippage optimization in a high-gain FEL with a waveguide (*Letter to the Editor*), Bonifacio, R. and L. De Salvo Souza A276 (1989) 394
Test of annealed Czochralski grown silicon crystals as X-ray diffraction elements with 145 keV synchrotron radiation, Schneider, J.R., H. Nagasawa, L.E. Berman, J.B. Hastings, D.P. Siddons and W. Zulehner A276 (1989) 636
Synchrotron radiation detectors for tagging electrons, Crittenden, R. and J. Krider A276 (1989) 643
A new tomographic device based on the detection of fluorescent X-rays, Cesareo, R. and S. Mascarenhas A277 (1989) 669
A fine focusing soft X-ray source for R & D work of the soft X-ray microscopy station at the BEPC Synchrotron Radiation Laboratory, Cui, M.Q., W.X. Xu, L.B. Liu, H.G. Heng, E.S. Tang, Z.Y. Sun, L.R. Qi and D.C. Xian A277 (1989) 673
Time- and frequency domain spectroscopy using synchrotron radiation, Rettig, W., H. Wiggenhauser, T. Hebert and A. Ding A277 (1989) 677
Precise, continuous determination of source position and emission angle in synchrotron radiation sources, Wolf, F.-P. and W. Peatman A278 (1989) 598
Optimization of the permanent magnet optical klystron for the SUPER-ACO storage ring free electron laser, Couprie, M.E., C. Bazin and M. Billardon A278 (1989) 788
The trapping and clearing of ions in Elettra, Bocchetta, C.J. and A. Wrulich A278 (1989) 807
New operation scheme for low emittance storage rings, Miyata, K. and M. Nishi A279 (1989) 640
A small electrostatic accelerator for a powerful continuous-wave free electron laser, Boscolo, I., V. Stagno and V. Variale A279 (1989) 646
A dynamic method for continuously measuring magnetic field profiles in planar micropole undulators with submillimeter gaps, Tatchyn, R. A279 (1989) 655
A simple concept shutter for high energy X-ray beams, Moini, H., C.-L. Kuo and J.C. Bilello A280 (1989) 137

Special Applications

Positron annihilation in corrosion protective polymeric coatings, II, Szeles, Cs., A. Vértes, M.L. White and H. Leidheiser Jr A271 (1988) 688
A nuclear imaging technique for studying multiphase flow in a porous medium at oil reservoir conditions, Lien, J.R., A. Graue and K. Kolltveit A271 (1988) 693
Environmental monitoring using a HPGe–NaI(Tl) Compton suppression spectrometer, Chung, C. and C-J. Lee A273 (1988) 436
Temperature measurement by neutron resonance radiography, Mayers, J., G. Baciocco and A.C. Hannon A275 (1989) 453
Development and fabrication of an in situ Cherenkov radiation detector, Larsen, I.L., M.M. Chiles and C. Miller A279 (1989) 665

Letters to the Editor

A new polyvinyltoluene-based, radiation-resistant plastic scintillator, Zorn, C., M. Bowen, S. Majewski, J. Walker, R. Wojcik, C. Hurlbut and W. Moser A271 (1988) 701
A simple CAMAC based data acquisition and reduction system (DARS), Ribanský, I., M. Morháč and I. Turzo A271 (1988) 704
Ionization of a polarized hydrogen atomic beam in an ECR discharge, Friedrich, L., E. Huttel and P.A. Schmelzbach A272 (1988) 906
DSA measurement using heavy ion reactions on the small tandem accelerator, Lu Xiting, Ban Yong, Liu Hongtao, Liu Jiarui, Zheng Zhongshuang and Zhang Qichu A272 (1988) 909
Detection of $LaF_3:Nd^{3+}$ scintillation light in a photosensitive multiwire chamber, Schotanus, P., C.W.E. Van Eijk and R.W. Hollander A272 (1988) 913
The effect of Pb^{2+} contamination on BaF_2 scintillation characteristics, Schotanus, P., C.W.E. Van Eijk and R.W. Hollander A272 (1988) 917
Time development of the asymmetry in the charges induced by SQS, De Fraga, F.A.F., R. Ferreira Marques, J.C.L. De Carvalho and A.J.P.L. Policarpo A272 (1988) 921
Precision measurement of target position during irradiation, Jaskóła, M., P. Egelhof, R. Henneck, H. Mühry, I. Sick and D. Vetterli A273 (1988) 441
A new multiwire proportional chamber with fast single strip readout and individual analog to digital conversion, Lindner, H., H. Angerer and G. Hlawatsch A273 (1988) 444
Vertically bent single crystal silicon wafers as a neutron monochromator, Vaknin, D., D.S. Coburn and A.S. Arrott A273 (1988) 447
Comments on "ESR dosimetry for atomic bomb survivors and radiologic technologists", Aldrich, J.E. and B. Pass A273 (1988) 451

Lumped correction of the multipole content in large synchrotrons, Neuffer, D. A274 (1989) 400
Alpha-particle spectrum of ^{219}Rn and its daughters from pitchblende samples using silicon surface-barrier detectors, Iturbe, J.T. A274 (1989) 404
A new approach for automatic count rate stabilization, Kumar, B. and B.P. Singh A274 (1989) 406
Comments on some publications concerning fine grid dynode PMTs, Kuroda, K., S. Sillou and F. Takeutchi . . . A274 (1989) 409
MeV polyatomic ion beams from a dynamitron accelerator for desorption mass spectrometry studies, Hunt, J.E., M. Salehpour, A. Ruthenberg, B. Zabransky, R. Amrein, Z. Vager, E. Kanter and D.L. Fishel A274 (1989) 597
A method for the energy calibration of heavy-ion beams, McGlone, V.A. A274 (1989) 601
Gas jet density profile measured by electron scattering, Sperisen, F., A. Berdoz, H.-O. Meyer, R.S. Barbieri and R.A. Bonham A274 (1989) 604
Design optimization of a small angle neutron scattering spectrometer, Margaça, F.M.A., A.N. Falcão, J.F. Salgado and F.G. Carvalho A274 (1989) 606
Comment on "Unfolding the response function of high-quality germanium detectors" by Love and Nelson, Waddington, J.C. A274 (1989) 608
Ion capacitor, a new approach to generate high current pulsed nonprotonic ion beams, Chi Yankun and Lu De . A274 (1989) 610
Preliminary results on time resolving spectrometry for neutrons emitted in plasma focus discharges, Vlad, M., M. Ganciu, M. Ivaşcu, N. Mandache, F. Spineanu and V. Zoiţa A274 (1989) 613
Comments on "On the energy resolution of uranium and other hadron calorimeters", Brau, J.E. and T.A. Gabriel A275 (1989) 190
A microprocessor-controlled device for isotope-ratio measurements by mass spectrometry, Bancroft, P.G. and P.M. Chalk A275 (1989) 192
Fast timing with Hamamatsu R2083Q photomultipliers, De Vries, J., A. Zecca, R.S. Brusa, R.G. Grisenti and S. Oss A275 (1989) 194
The flash-TDC, Klär, H., M. Schulz, P. Steffen and D. Düllmann A275 (1989) 197
The influence of convection on high-pressure gas target densities, Köble, T., F. Meyer, M. Ockenfels, J. Weltz, W. Von Witsch and G. Wollmann A275 (1989) 460
Solid surface analysis beamline with a grating/crystal monochromator at the photon factory, Kawamura, T., S. Maeyama, M. Oshima, Y. Ishii and T. Miyahara A275 (1989) 462
A technique for generating atomic negative ion beams of the group IA elements, Alton, G.D. and G.D. Mills . . A276 (1989) 388
A new radiation-hard plastic scintillator, Bowen, M., S. Majewski, J. Walker and C. Zorn A276 (1989) 391
Tuning and slippage optimization in a high-gain FEL with a waveguide, Bonifacio, R. and L. De Salvo Souza . . A276 (1989) 394
A convenient technique to make uniform polyethylene foils, Islam, M.S., P.B. Corn, R.N. Boyd, K.E. Sale and G.J. Mathews A276 (1989) 647
A multiple target gas-jet system for light-ion bombardments of heavy targets, Hall, H.L., M.J. Nurmia and D.C. Hoffman A276 (1989) 649
Particle identification with a combined hodoscope calorimeter, IHEP–IISN–LANL–LAPP Collaboration, D. Alde, F.G. Binon, C. Bricman, V.C. Datsko, S.V. Donskov, M. Gouanère, A.V. Inyakin, V.A. Kachanov, D.B. Kakauridze, G.V. Khaustov, E.A. Knapp, A.V. Kulik, A.A. Lednev, J.P. Peigneux, Yu.D. Prokoshkin, Yu.V. Rodnov, V.I. Rykalin, S.A. Sadovsky, V.D. Samoylenko, P.M. Shagin, A.V. Shtannikov, A.V. Singovsky, J.P. Stroot and V.P. Sugonyaev A276 (1989) 652
Performances of a detector for high precision monitoring of a low energy γ-ray beam, Belli, P. and A. Incicchitti A276 (1989) 656
A barium fluoride scintillator working with p–p′ diphenylstilbene wavelength shifter, Yanovsky, V. and P. Kozma A276 (1989) 659
On the determination of the shape parameters of the γ-ray multiplicity distribution with a low efficiency multicounter system, Russo, G. A277 (1989) 682
Dc beam operation of the cusp negative heavy ion source, Mori, Y., A. Takagi, A. Ueno, K. Ikegami and S. Fukumoto A278 (1989) 605
UV laser beam profile measurement by means of the photoelectric effect on the wires of a proportional chamber, Prokoviev, O. and P.G. Seiler A278 (1989) 608
Preparation of thin ^{226}Ra sources by the electro-spray technique, Hernegger, F. and A. Chalupka A278 (1989) 611
Using the combination CsI(Tl) and photodiode for identification and energy measurement of light particles, Guinet, D., B. Chambon, B. Cheynis, A. Demeyer, D. Drain, X.C. Hu, C. Pastor, L. Vagneron, K. Zaid, A. Giorni, D. Heuer, A. Lleres and J.B. Viano A278 (1989) 614
A vibrating crystal spectrometer for the study of small angle neutron scattering, Michalec, R., J. Vávra and B. Michalcová A278 (1989) 617
Production and test of coherent bundles of plastic scintillating microfibers, Blumenfeld, H., M. Bourdinaud, P. Rebourgeard and J.C. Thevenin A278 (1989) 619
Trapping of fluorescent light in cylindrical scintillators, Carrier, C. and R. Lecomte A278 (1989) 622
A simple relationship between the Voigt integral and the plasma dispersion function. Additional methods to estimate the Voigt integral, Jiménez-Domínguez, H., H. Flores-Llamas, A. Cabral-Prieto and A. Bravo-Ortega A278 (1989) 625
A BaF_2–BGO detector for high-energy gamma rays, Bargholtz, Chr., B. Ritzén and P.-E. Tegnér A279 (1989) 668

A flexible timing unit: delay and clock generator, Cesaroni, F., E. Gennari and S. Gentile A279 (1989) 671
"TIVAL" – A development in spectrum tailoring for intermediate-energy neutron beam production, Constantine, G. A279 (1989) 675
A new highly efficient selective laser ion source, Alkhazov, G.D., E.Ye. Berlovich and V.N. Panteleyev A280 (1989) 141
Detection of recoil electrons in triplet photoproduction, Endo, I., S. Kasai, M. Harada, K. Niki, Y. Sumi, M. Tobiyama, M. Mutou, H. Tsujikawa, K. Watanabe, K. Yoshida and K. Baba A280 (1989) 144
Spectral information in intense radiation bursts, Nardi, E. A280 (1989) 147

Addendum

S.A. Woods, P. Christmas, P. Cross, S.M. Judge and W. Gelletly, Decay studies of ^{237}Np with an iron-free $\pi\sqrt{2}$ double-focusing β-ray spectrometer of improved efficiency, Nucl. Instr. and Meth. A264 (1988) 333–356 ... A272 (1988) 924

Errata

S. Aronson et al., Hadron and electron response in a uranium liquid argon calorimeter from 10 to 150 GeV, Nucl. Instr. and Meth. A269 (1988) 492–506 ..... A273 (1988) 453
U. Becker, J. Branson, M. White, B. Wyslouch, B. Zhou, M. Cerrada E. Gonzales, J.A. Rubio, J. Salicio, C. Willmott, P. Diunker, H. v.d. Graaf, F. Hartjes, G.G.G. Massaro, D. Antreasyan, P. McBride, K. Strauch, P.G. Seiler, M. Gettner and C. Zabounidis, Accurate measurements of high momenta, Nucl. Instr. and Meth. A263 (1989) 14–19 ..... A274 (1989) 411
Erratum to "hadron showers in a low-density fine-grained flash chamber calorimeter", Womersley, W.J., J.K. Walker, D. Bogert, L. Stutte, J. Bofill, J.I. Friedman, S. Fuess, M.C. Goodman, H.W. Kendall, V. Kistiakowsky, T. Lyons, L.S. Osborne, R.E. Pitt, B. Strongin, F.E. Taylor, M. Abolins, R. Brock, W.G. Cobau, R.W. Hatcher, D. Owen, G.J. Perkins, M. Tartaglia and H. Weerts A278 (1989) 447

Book Reviews

Symposium of North Eastern Accelerator Personnel, eds. E.D. Berners, U. Garg and C.P. Browne (Reviewers: H.J. Whitlow and G. Possnert) A272 (1988) 925
Capture gamma-ray spectroscopy 1987, proceedings of the sixth conference on capture gamma-ray spectroscopy held at Leuven, Belgium, from 31 August to 4 September 1987, edited by K. Abrahams and P. Van Assche (Reviewer: L. Nilsson) A274 (1989) 412
New books from the International Atomic Agency (Vienna) A274 (1989) 616

Proceedings of the Winter School held in Folgaria, Italy, Third Course, 15-20 February, 1988

HADRONIC PHYSICS

edited by **R. Cherubini, P. Dalpiaz** *and* **B. Minetti**

Presenting the main perspectives of intermediate energy physics with hadrons, the subjects covered at this course included theoretical and experimental nuclear and elementary particle physics, and related topics concerning detectors, data analysis, particle accelerators and technology underlining the interdisciplinary aspects.

Contents: Preface. **I. Theoretical Basis of the Hadronic Interactions.** Ideas of hadronic physics at short distances *(G. Preparata)*. Charm decay and a new hadronization scheme *(E. Predazzi)*. Hadronic structure and deep inelastic proton-proton collisions *(N. Paver)*. Perspectives in superstring theory *(M. Bregola)*. **II. Nuclear Physics.** Nuclear collective excitations carrying isospin *(R. Leonardi)*. Large shape changes in nuclei *(F. Barranco, E. Vigezzi and R.A. Broglia)*. Temperature dependence of the lifetime of giant dipole resonances *(R.A. Broglia and A. Bracco)*. The Darmstadt effect *(E. Remiddi)*. The optical model in nucleon (antinucleon)-nucleus scattering *(F. Iazzi, B. Minetti and G. Puddu)*. Charm, beauty and nuclei *(T. Bressani and F. Iazzi)*. **III. Subnuclear Physics.** Measurements of the $\bar{p}$ annihilation cross-sections at very low energies *(E. Lodi Rizzini)*. Probing the standard model at the SPS collider. Experimental results from UAI *(A. Bettini)*. Hadronic total cross-section measurements at high energies *(R. Castaldi)*. Windsurfing on the colourless sea *(F.L. Navarria)*. Experimental problems in the measurement of structure functions from muon deep-inelastic scattering *(U. Dosselli)*. Nuclear effects in deep inelastic muon scattering *(C. Peroni)*. **IV. Underground and Cosmological Physics.** Elementary physics of the gravitational collapse *(G. Auriemma)*. On the standard cosmological model *(P. Fortini)*. SN 1987A and extra solar neutrino astrophysics *(P. Galeotti)*. Supernovae: theory versus observations *(A. Tornambe')*. A very large telescope for neutrino and gamma astronomy *(P. Pistilli)*. X-ray astronomical research and the Italian satellite SAX *(F. Frontera)*. GALLEX: an experiment to measure the solar neutrino flux with radiochemical techniques *(R. Santonico)*. The LVD experiment *(G. Bari et al.)*. The MACRO detector at the Gran Sasso Laboratory *(S. Petrera)*. Ultra-high sensitivity mass spectrometry: applications to rare nulcear and cosmological processes archived in geological samples *(C. Tuniz and J. Klein)*. **V. Experimental Techniques and Particle Accelerators.** Introduction to accelerators and accelerator physics *(M. Pusterla)*. The physics case for EHF *(F. Bradamante)*. Hadron calorimetry and the mechanism of compensation *(L. Piemontese)*. Semiconductor detectors for colliders physics *(G. Tonelli)*. Author index. Subject index.

1989 x + 542 pages US $110.50/Dfl.210.00 ISBN 0-444-87486-0

North-Holland

(a section of **Elsevier Science Publishers**)

P.O. Box 211, 1000 AE Amsterdam
The Netherlands

In the USA & Canada:
Elsevier Science Publishing Co., Inc.
P.O. Box 882, Madison Square Station
New York, NY 10159, U.S.A.

US $ prices are valid only in the USA and Canada. In all other countries, the Dutch Guilder price is definitive. Customers in The Netherlands, please add 6% BTW. In New York State, applicable sales tax should be added. All prices are subject to change without prior notice. 404/B/564

A comprehensive and practical guide .....

Gamma- and X-Ray Spectrometry with Semiconductor Detectors

by **K. Debertin** *and* **R.G. Helmer**

This book covers the topics essential to gamma- and x-ray spectrometry as it is now practiced with semiconductor detectors in the energy range from 5keV to 3MeV. This includes useful physical and mathematical background information, the components of a standard photon spectrometer, spectrum analysis procedures, the energy and efficiency calibration, energy and emission-rate measurement methods and some application examples.

The first chapter is devoted to the historical development of photon spectrometry, to the physical phenomena related to photon production, to the interaction of photons with matter and to mathematical procedures that are useful in the analysis of data.
In chapter 2, the authors describe the components of a standard photon spectrometer, including the properties of detectors, the electronics, sources and the measuring geometry.
The main emphasis of the monograph is on the material in chapters 3 and 4 which describes the techniques used to make high quality measurements and the methods for the analysis of the resulting spectra. These topics include peak evaluation, energy and efficiency calibration, and the corrections that have to be applied in order to get reliable results for photon energies and emission rates.
Chapter 5 gives examples of the application of the methods of chapters 3 and 4 and describes other, specialized methods including automated analysis for determining the activities of radionuclides present in a source.
In the final chapter tables of data that are useful for photon spectrometry, namely mass attenuation coefficients for many important materials, atomic data including K-X-ray energies and relative intensities, K-shell fluorescence yields, and the natural widths of some atomic levels and K-X-ray lines are provided. A compilation of radionuclide decay data for nuclides that may be of use is also included.

Emphasis is given to the practical aspects of photon spectrometry in order to aid the experimentalist in making good quality measurements. Data that are frequently needed are summarized in diagrams and tables. Over 500 references guide the reader to still more detailed information.

Contents: Preface. 1. Background material. 2. Experimental setup. 3. Spectrum analysis and energy measurements. 4. Efficiency calibration and emission-rate measurements. 5. Applications. 6. Atomic and nuclear data. References. Index.

1988 x + 400 pages US $94.75/Dfl.180.00 ISBN 0-444-87107-1

North-Holland Physics

(a department of **Elsevier Science Publishers**)

P.O. Box 211
1000 AE Amsterdam, The Netherlands

In the USA and Canada:
Elsevier Science Publishing Co. Inc.
P.O. Box 882, Madison Square Station
New York, NY 10159, USA

US $ prices are valid only in the USA and Canada. In all other countries, the Dutch Guilder (Dfl.) price is definitive. Customers in The Netherlands, please add 6% BTW. In New York State, applicable sales tax should be added. All prices are subject to change without prior notice.

p323nh

Have you received your personal copy?

NORTH-HOLLAND
PHYSICS

1989
PUBLICATIONS IN

NUCLEAR AND PARTICLE PHYSICS

ELSEVIER
SCIENCE
PUBLISHERS

NORTH-HOLLAND
(Elsevier Science Publishers)
P.O. Box 103
1000 AC Amsterdam
The Netherlands

In the U.S.A. and Canada:
ELSEVIER SCIENCE PUBLISHING CO. INC.
P.O. Box 882
Madison Square Station
New York, NY 10159, U.S.A.

PLEASE SEND ME A COPY OF YOUR NUCLEAR AND PARTICLE PHYSICS CATALOGUE 1989

Name_____

Address_____

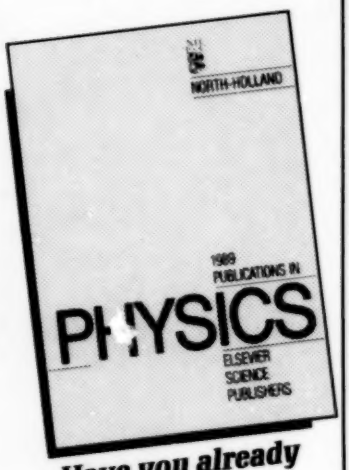
Interested in receiving a free-of-charge copy of the Nuclear and Particle Physics Catalogue 1989?

Complete the coupon (or a photocopy) and mail it today!

404/m/002

NORTH-HOLLAND PHYSICS PUBLICATIONS

at a Glance



Have you already received our catalogue?

NORTH-HOLLAND
(Elsevier Science Publishers)

P.O.Box 103
1000 AC Amsterdam
The Netherlands

Customers in the U.S.A. and Canada please contact:
Elsevier Science Publishing Co. Inc.
655 Avenue of the Americas
New York, NY 10010

Journals:

Applied Surface Science
Chemical Physics
Chemical Physics Letters
Computer Physics Communications
Computer Physics Reports
Fluid Dynamics Research
Journal of Crystal Growth
Journal of Luminescence
Journal of Magnetism and Magnetic Materials
Journal of Non-Crystalline Solids
Journal of Nuclear Materials
Materials Letters
Materials Science Reports
Nuclear Instruments and Methods in Physics Research
Section A:Accelerators, Spectrometers, Detectors and Associated Equipment
Section B:Beam Interactions with Materials and Atoms
Nuclear Physics A
Nuclear Physics B
Nuclear Physics B-Proceedings Supplements
Optics Communications
Physica A-Statistical Physics
Physica B-Condensed Matter Physics
Physica C-Superconductivity
Physica D-Nonlinear Phenomena
Physics Letters A
Physics Letters B
Physics Reports
Solar Energy Materials
Solid State Ionics
Surface Science
Surface Science Letters
Surface Science Reports
Ultramicroscopy

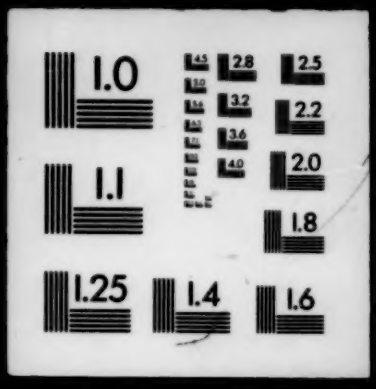
Indispensable Handbooks:

Handbook on Ferromagnetic Materials
Handbook on Semiconductors
Handbook on Synchrotron Radiation
Handbook on the Physics and Chemistry of Rare Earths
Handbook on the Physics and Chemistry of the Actinides
Handbook of Plasma Physics
Laser Handbook

Book Series:

Cohesion and Structure
Current Physics-Sources and Comments
Defects in Solids
Dislocations in Solids
Dynamical Properties of Solids
Enrico Fermi International Summer School of Physics
Les Houches Summer School Proceedings
Materials Processing: Theory and Practices
Modern Problems in Condensed Matter Sciences
Niels Bohr Collected Works
North-Holland Delta Series
North-Holland Personal Library
Progress in Low Temperature Physics
Progress in Optics
Selected Topics in Solid State Physics
Studies in Statistical Mechanics

...and of course a large variety of books.


1.0
1.1
1.25
1.4
1.6
2.8
3.2
3.6
4.0
2.5
2.2
2.0
1.8